Polish Space Agency

CATALOG OF POLISH SME ENTITIES

IN THE SPACE AND AVIATION SECTORS

European Funds for Smart Economy
Republic of Poland
Co-funded by the European Union
Poland. Business Forward

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Catalog of Polish SME entities in the space sector

Technology domains

The domain structure in the space section is based on the standardized *Technology Domains* classification developed by the European Space Agency (ESA).
This division reflects the rigorous requirements of space engineering, encompassing the full spectrum of technologies from the ground segment to advanced onboard and scientific systems.

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- TD 26 Others

ABGi Poland

60.39.Z Other information service activities

ABGi Poland specializes in providing tailored business solutions that enable organizations to develop innovatively and achieve success in their individual disciplines. ABGi Poland's team of experts focuses on optimizing access to financing, grants, and tax relief, ensuring that its clients maximize their financial resources.

The company actively supports collaboration and long-term development, helping companies navigate within the complex financing landscape and strengthen their research and development potential. ABGi Poland has an extensive network of contacts in Poland, Europe, and international markets, allowing it to effectively connect partners, expertise, and funding sources.

Since 2022, ABGi Poland has been serving as ESA Technology Broker in Poland and operates within ESA Business Applications and Space Solutions Poland (BASS). The company also manages the ESA Spark Funding program in Poland, supporting the financing of technology transfers between the space sector and other industries.

Operating in the Polish market since 2014, ABGi Poland has been combining the international experience of the ABGi Group with in-depth knowledge of the local innovation ecosystem.

MAIN PRODUCTS:

- Consulting, support in seeking grants and writing project applications
- ESA Technology Broker Poland function
- ESA Business Applications and Space Solutions Poland function (BASS)

ACHIEVEMENTS

TD 26 Others

- Signing a contract with ESA to conduct activities in Poland as ESA Technology Broker Poland
- Signing a contract with ESA to conduct activities in Poland as part of ESA Business Applications and Space Solutions Poland (BASS)
- Organizer of the Space Connect Summit conference

Source: https://www.facebook.com/abgiPL/

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Adaptronica Sp. z o.o.

33.12.Z Repair and maintenance of machinery

Adaptronica has been operating in the Polish space sector since 2013, focusing on vibration damping in structures and components with increased dynamic requirements, including satellite technologies.
The company conducts research, development, and engineering work encompassing passive and active vibration reduction methods, as well as dynamic analyses and modeling of the behavior of mechanical structures.
Adaptronica's activities include the development of technical concepts, solution design, and their verification within R&D projects.
During over a decade of activity in the space sector, Adaptronica has participated in eight European Space Agency (ESA) contracts. The company operates as a specialized technology partner in projects implemented in the international research and industrial environment, offering expertise in a narrow, specialized engineering niche.

MAIN PRODUCTS:

- Research and development services related to structural mechanics and mechatronics, with particular emphasis on vibration damping (including micro-vibrations) and shock load mitigation
- Dedicated technologies and services related to vibration testing

ACHIEVEMENTS

- Development of a vibration damping system for the LPTC (Large Pulse Tube Cryocooler).
- Development of the system to TRL 6 technological advancement.
- Participation in a consortium developing a training device for astronauts.
- The training device is intended for the planned Lunar Gateway station.

TD 2 Space System Software

TD 5 Space System Control

TD 20 Structures

Source: https://www.adaptronica.pl/

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APVACUUM

28.99.Z Manufacture of other special-purpose machinery n.e.c

APVACUUM sp. z o.o. was founded in 2010 by a group of physicists with extensive experience in vacuum technology. We develop technologies, design, and manufacture unique devices for companies and the broader research and development sector. APVACUUM also provides laboratory and service services, including helium leak testing (for pre-production and mass-produced components), calibration of helium calibration infiltrations, and servicing of vacuum equipment and components. The company serves as a certified service center (authorized representative) for Pfeiffer Vacuum GmbH, providing access to factory documentation and original spare parts. Within the space sector, APVACUUM designs and manufactures products such as space simulators for testing ion propulsion systems for microsatellites, vacuum chambers for testing antennas and other satellite components, and specialized pump stands for rocket engine test benches).

MAIN PRODUCTS:

- Space/vacuum simulators, vacuum pumping stations, vacuum chambers
- Helium leak testing systems, helium leak testing services
- R&D work, in particular the development of leak measurement technologies and methodologies, and systems for analyzing residual gases in vacuum using quadrupole mass spectrometers

ACHIEVEMENTS

- Space vacuum simulator for testing PPT and HET plasma microthrusts for the Institute of Plasma Physics and Laser Microfusion.
- Space simulators with internal temperature-controlled workbenches.
- Vacuum chambers with vacuum pumping systems for testing satellite components in vacuum.
- Specialized vacuum pumping stations.

TD 20 Structures

TD 21 ThermalF

TD 25 Quality, Dependability and Safety

TD 26 Others

Source: https://apvacuum.com/apvacuum-produkty/produkty/pompy-prozniowe/

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Astronika Sp. z o.o.

71.12.Z Engineering activities and related technical consultancy

Astronika is a Polish engineering company that creates advanced solutions for the space and aviation industries. Astronika's technologies play a key role in international exploration missions of the Solar System and beyond, such as InSight, JUICE, RadCube, Hera, PROSPECT, and Athena.

The company's core business is lightweight, compact, and highly reliable space mechanisms and instruments, including booms and antennas, hold-release subsystems, propulsion subsystems, linear and rotary actuators, as well as systems for planetary and subsurface exploration.

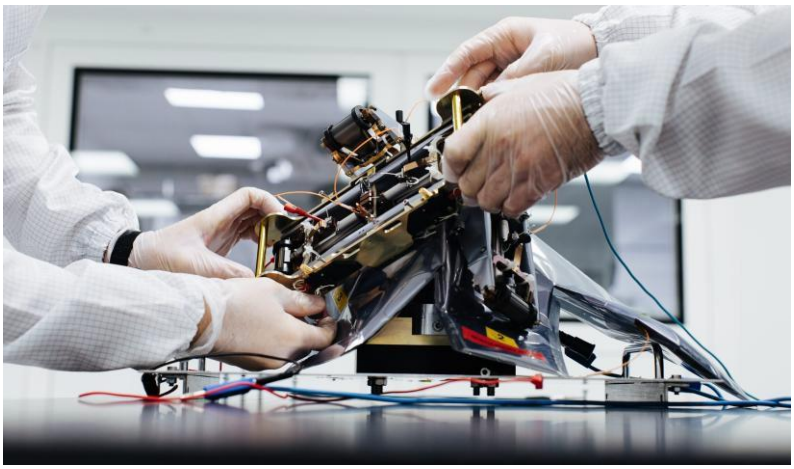
Astronika offers comprehensive support at every stage of a space mission's lifecycle — from participation in defining the mission concept and requirements, through design and prototyping, to testing, qualification, and integration of flight systems. The company has a team of experienced engineers and scientists and modern research, development, and production facilities, including: a cleanroom, thermal-vacuum chambers, an impact test station, and infrastructure for precise, high-quality production of parts. Astronika is a certified supplier of space mechanisms, meeting the requirements of ISO 9001:2015 and ECSS standards, confirming the highest standards of quality and reliability of the solutions offered.

MAIN PRODUCTS:

- Ultralight booms, manipulators, and antennas, Hold-and-Release Systems (HDRM), separation mechanisms for small satellites
- Satellite propulsion subsystems, linear and rotary actuators
- MGSE, precision mechanical parts manufacturing
- Penetration and sampling solutions and devices

ACHIEVEMENTS

- InSight HP3 (NASA): Development of a "mole" penetrator propulsion mechanism for a Mars exploration mission.
- JUICE RPWI (ESA): Development of the RWI and LP-PWI instruments for an exploratory mission to the Jupiter system.
- HERA Juventas (ESA): Development of a low-frequency radar (LFR) for the Juventas CubeSat as part of the Didymos asteroid exploration mission.
- RadCube (ESA): Design and fabrication of a magnetometer boom for a demonstration CubeSat mission dedicated to space weather research.
- RadCube (ESA): design and fabrication of a magnetometer boom for a demonstration CubeSat mission



Source: https://astronika.pl/

TD 7 Electromagnetic Technologies and Techniques

TD 8 System Design & Verification

TD 13 Automation, Telepresence & Robotics

TD 15 Mechanisms

TD 19 Propulsion

TD 21 ThermalF

TD 22 Environmental Control & Life Support (ECLS) and In Situ Resource Utilisation (ISRU)

TD 24 Materials and Manufacturing Processes

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Asynchronics

62.01.Z Computer programming activities

Asynchronics sp. z o.o. is a technology company developing simulation software and digital twins for satellite systems and subsystems. As part of its R&D work, the company also integrates models with customer tools and test environments, including Software-in-the-Loop and Hardware-in-the-Loop test environments. A key element of its offering is the construction and validation of models and the development of supporting tools (including GUIs and interfaces to other programs). Asynchronics also develops its own products: NeXosim (a high-performance simulation framework) and NeXosim.io (a marketplace for ready-made simulation models). Commercial support tools, including GUIs and interfaces to external software, are also available. The company operates a B2B model, offering collaboration with component manufacturers, integrators, and entities implementing space projects in ESA and EU programs.

MAIN PRODUCTS:

- Creation of satellite subsystem simulation models, integration of digital twin subsystem models
- Scenario development and validation (system level/mission level), model integration with tools and environments (SIL/HIL)
- NeXosim, NeXosim.io
- GUI and interfaces to external software, consulting and implementation support for system simulation and verification

ACHIEVEMENTS

- Implementation of the ESA PUSH (ASCEND!) program with the participation of leading companies from the European space ecosystem (including ClearSpace, ISISpace).
- Development of simulation models and the creation and integration of a simulation environment for the entire Endurance satellite, as part of the ambitious ESA RPA project with Infinite Orbits.
- INVICTUS project in a consortium with industrial partners (including Airbus, Thales), work on the complete virtual simulation of the PPS5000 plasma propulsion system.
- Successful completion of incubation at ESA BIC Poland (1st edition) and qualification for the NCBR AKCES SpaceTech accelerator.

TD 2 Space System Software

TD 8 System Design & Verification

TD 9 Mission Operation and Ground Data Systems

Source: https://asynchronics.com/

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BitByBit Sp. z o.o.

62.01.Z Computer programming activities, computer consultancy activities

BitByBit is a Polish technology company specializing in providing highly complex, custom software. The company stands out in the market for its unique combination of modern IT expertise with niche domain knowledge in the space and e-health sectors.
BibyBit's operations in Poland focus on the export of advanced technical knowledge and programming services. Its scope of activity spans various sectors, including technology development for the space sector. Bibybit is a key supplier of interfaces for the ground segment. The company has developed, among other things, the official interface for the EGS-CC platform and supports the automation of validation scenarios and tools for planned missions. Since 2018, BitbyBit has been a key partner of European space sector institutions (ESA/ESTEC, ESA/ESOC, Airbus, OHB).
The company's scope of activities also covers the full software development cycle. The company is also actively involved in adapting modern interface design standards for complex control and monitoring systems (UI/UX Innovations). BitbyBit actively invests in the development of Polish engineers, combining experienced staff with new IT talents.

MAIN PRODUCTS:

- EGS-CC WebUI / PulseUI - User interface for space mission monitoring and control systems: EGS-CC and Pulse.
- EGS-CC Scenario Validation Framework - a set of tools supporting the validation of EGS-CC-based systems, imitating interactions with the user interface.
- RadOne - a system supporting the process of managing radiological image descriptions.

ACHIEVEMENTS

- Implementation of the EGS-CC Release Agent project, where BitByBit and the consortium coordinate changes to the EGS-CC project and release subsequent versions of the software.
- Implementation of the Pulse project in terms of the user interface.
- Building the products from scratch: WebUI/PulseUI, Scenario Validation Framework, and RadOne – creating such advanced systems required us to acquire extensive domain knowledge.

TD 9 Mission Operation and Ground Data Systems

TD 12 Ground Station Systems and Networks

Source: Open resources, available under a public license

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Blue Dot Solutions

26.20.Z Manufacture of computers and peripheral equipment

Blue Dot Solutions is a technology company developing solutions based on satellite data and location-time systems. In the area of Earth Observation (EO), the company develops solutions for the analysis and interpretation of satellite data, including Canola EO – a tool for crop detection and classification. In the PNT area, it implements projects that increase the independence and resilience of location and time services, including PLUTONIC – an alternative to GPS/GNSS to access time services with an accuracy of ~0.01 s, and FLAMINGO – a solution ensuring precise vehicle location in urban environments.
The offering is complemented by GroundEye – an IoT system for location in demanding infrastructure areas such as ports and airports.
A key element of Blue Dot Solutions' activities is also the development of an innovation ecosystem: the company operates Space3ac – a business accelerator for technology startups – and Kosmonauta.net, a website dedicated to the Polish and European space sectors.

MAIN PRODUCTS:

- Canola EO
- PLUTONIC, FLAMINGO, GroundEye
- Spce3ac
- Kosmonauta.net

ACHIEVEMENTS

- Consortium leader for Horizon 2020 projects, participant in Horizon 2020, ESA, and Horizon Europe projects.
- Supporting over 150 technology startups through acceleration, financial support, and networking in "big industry" as part of the space3ac accelerator between 2016 and 2023, including several "rising stars" in the space industry.
- Product development, including the Plutonic time synchronization module, GroundEye, a ground asset management system for airports, and FLAMINGO, an IoT system for monitoring vehicle traffic.

TD 10 Flight Dynamics and GNSS

TD 20 Structures

TD 24 Materials and Manufacturing Processes

TD 26 Others

Source: https://www.bluedotsolutions.eu/index.php/products/

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ChipCraft Sp. z o.o.

26.11.Z Manufacture of electronic components

ChipCraft is a Polish microelectronics company specializing in GNSS technology. ChipCraft provides fully integrated, multi-frequency, multi-constellation GNSS receivers with high precision and reliability. The NaviSoC receiver is offered as an integrated circuit (IC) and a module and is designed for the consumer, industrial, and automotive markets. The NaviSoC GNSS receiver can be used in a variety of applications, including location-based services (LBS), IoT, lane-level navigation, unmanned aerial vehicles (UAVs) and autonomous vehicles, asset tracking, time synchronization, precision agriculture, surveying, and terrain mapping.

ChipCraft also offers specialized integrated circuit design and industrialization services, as well as industrially verified analog and digital integrated circuit building blocks for numerous sectors. Based in Warsaw, the company serves clients worldwide. Our team can also provide custom building blocks or integrated circuit subsystems, and support any design team with the required expertise.

MAIN PRODUCTS:

- NaviSoC GNSS satellite navigation receiver.
- Integrated circuit design and industrialization services. ChipCraft provides turnkey solutions based on comprehensive integrated circuit design services.

ACHIEVEMENTS

- Sale of a NaviSoC GNSS receiver license to a global space and defense company.
- NaviSoC – the first in Europe and the second in the world, multi-frequency, multi-constellation GNSS system on a chip for precise satellite navigation.
- One of six European Rising Stars in the GNSS 2023 market according to EUSPA.
- Regional winner of the Galileo Masters 2018 competition during European Space Week in Marseille.

TD 10 Flight Dynamics and GNSS

TD 23 Electrical, Electronic and Electro-mechanical (EEE) Components and Quality

Source: https://chipcraft-ic.com/

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Cilium Engineering Sp. z o.o.

71.12.Z Engineering activities and related technical consultancy

Cilium Engineering designs and implements turnkey observatories, covering the full system lifecycle—from concept and design, through integration and commissioning, to operation and maintenance. In parallel, Cilium Engineering develops modular hardware and software components for integration with existing installations, including automation and observation infrastructure management systems.

Cilium Engineering's portfolio includes the implementation of 25 optical sensors for Space Surveillance and Tracking (SST) applications, ranging from innovative triangulation systems for LEO objects with an ultra-wide field of view, through cost-effective configurations based on COTS components, to fully integrated, high-performance tracking and measurement sensors ready for immediate operation. The company actively supports the operational functioning of 30 sensors and telescopes deployed in 17 locations worldwide and has developed a complete software stack for the acquisition, processing, and analysis of data acquired by optical SST systems.

MAIN PRODUCTS:

- OpticalFence / OpticalHorizon, a ground-based optical sensor network designed for Space Traffic Management (STM) applications
- Cilium Engineering manufactures telescopes designed to detect and track objects measuring 8–10 cm in size in low Earth orbit (LEO), including space debris that poses a threat to Earth observation satellites.

ACHIEVEMENTS

- OpticalFence triangulation network - designed to perform three-dimensional positioning of satellites and other space objects. The use of triangulation allows for determining not only the object's position relative to the stellar background, but also its absolute spatial coordinates in three dimensions. As a result, this technique combines the advantages of classic measurements performed using optical telescopes with the precision characteristic of laser systems, while maintaining the passive nature of observations.

TD 11 Space Debris

TD 12 Ground Station Systems and Networks

TD 13 Automation, Telepresence & Robotics

Source: https://www.cilium.pl/opticalfencepl/

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CIM-mes Projekt Sp. z o.o.

30.30.Z Manufacture of air and spacecraft and related machinery

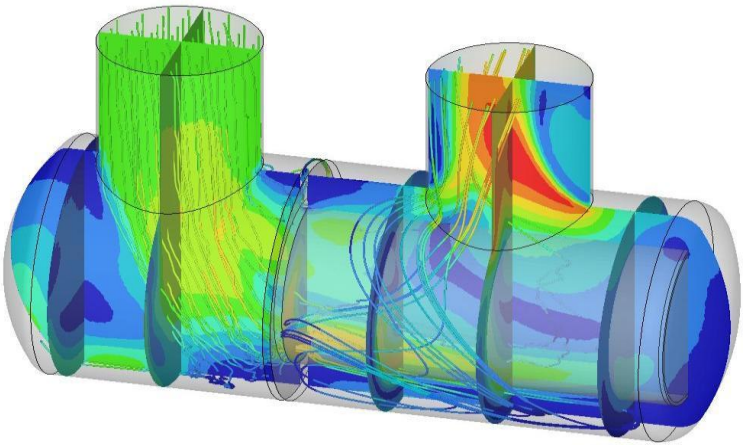
CIM-mes Projekt is a Polish engineering company with over 30 years of experience, providing advanced design, computational, and simulation services for industry and the space sector. The company's core competencies are Finite Element Method (FEM) analyses, enabling precise verification of complex structures. A key element of the company's structure is the CIM-lab team, which develops dedicated engineering tools and provides specialized simulations for space applications. The company offers comprehensive multiphysics and thermal calculations, as well as CFD flow analyses, focusing on device optimization and the study of physical phenomena in extreme conditions.

MAIN PRODUCTS:

- Simulation of particle contamination analysis during rocket launches and in DUSTFLOW cleanrooms.
- MoonDUST software for analyzing gas-dust interactions during lunar landings.
- TEDMAP3D tool for infrared temperature measurements in thermal vacuum chambers (TVAC).
- Advanced engineering analyses – strength (MES), thermal, and flow calculations (CFD)

ACHIEVEMENTS

- Analyzing a liquid oxygen turbopump for AVIO Sp.A.
- Coordinating five ESA projects in the field of simulation and developing new modeling methods.
- Collaborating with Blue Origin on simulations of lunar landings.
- Developing models of Mars atmospheric entry in collaboration with leading European universities.



Source: https://cim-mes.com/en/services/cfd-simulations/

- TD 15 Mechanisms
- TD 16 Optics
- TD 18 Fluid Dynamics
- TD 19 Propulsion
- TD 21 ThermalF
- TD 8 System Design & Verification
- TD 20 Structures
- TD 22 Environmental Control & Life Support (ECLS) and In Situ Resource Utilisation (ISRU)
- TD 26 Others

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CleverHive

cleverhive

62.01.Z Computer programming activities

CleverHive is a specialized software provider focused on enabling demanding robotic operations for the space sector. The company originates from a team with a strong competency base, built, among other things, on experience with the award-winning planetary rover prototype. CleverHive supports mission operators in conducting operations in extreme environments by providing advanced tools for collaborative control and real-time decision support. Beyond its proprietary platforms, CleverHive serves as an expert technical partner, leveraging specialized know-how in robotics, software, and AI. It delivers complex solutions through a joint R&D model and tailored subcontracting.

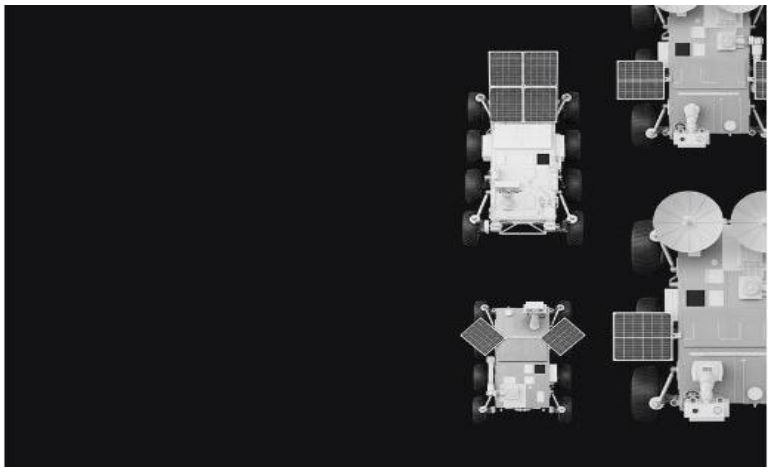
MAIN PRODUCTS:

- Robot Control Center – A software platform designed to maximize the efficiency of mobile robots in complex missions through shared control, situational awareness, and real-time tactical planning.
- Services at the intersection of robotics, software, and AI, including E2E project implementation, R&D, and subcontracting

ACHIEVEMENTS

- The entity was incubated in the ESA BIC Poland program.
- Member of the finalist consortium in the ESA/ESRIC 2nd Space Resources Challenge.
- Product presentations during the Monsaraz Mars Analog Mission (Portugal) and the LunAres Research Station (Poland).

TD 9 Mission Operation and Ground Data Systems



Source: https://www.cleverhive.space/

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Creotech Instruments S.A.

30.30.Z Manufacture of air and spacecraft and related machinery

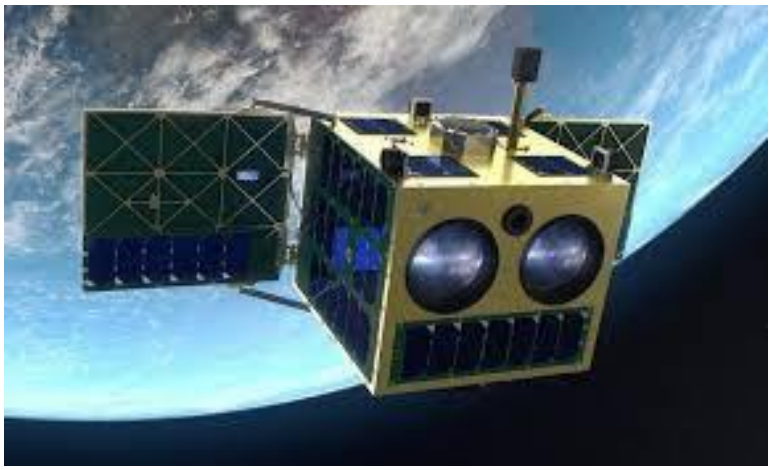
Creotech Instruments is a leading Polish space mission integrator and manufacturer of small satellites, systems, and satellite components.
The company also operates in the field of quantum technologies, providing advanced electronics for applications such as quantum computer control systems. The company has its own electronics production facilities and small satellite integration facilities. Creotech Instruments offers complete satellite missions, based on its proprietary HyperSat satellite platform, among others, as well as dedicated space systems. The company also provides comprehensive electronic device assembly services to clients requiring the highest quality and reliability, such as the space, automotive, and medical industries. The company is one of the largest Polish contractors of the European Space Agency (ESA) and regularly supplies its solutions to the world's most modern and technologically advanced research institutions. Creotech is currently implementing a strategic project called Mikroglob for the State Treasury – the Armaments Agency.
The company has been listed on the Warsaw Stock Exchange since 2022, making it the first Polish company in the space industry.

MAIN PRODUCTS:

- Satellite-as-a-Service - we specialize in creating complete space missions tailored to individual customer needs
- HyperSat Nano MS MR 2.0, HyperSat Eagle MS HR 2.0, HyperSat Seagull SAR HR
- HyperSat Satellite Platform, HyperSat Nano 2.0 Platform, HyperSat Eagle 2.0 Platform

ACHIEVEMENTS

- European space mission integrator, leader in the Polish space sector
- Creotech Instruments is the most technologically advanced Polish company in the space sector, independently designing, integrating, and testing complete satellite systems, with end-to-end competencies.
- CAMILA contract — ESA's largest order for a Polish company, involving the delivery of a constellation of at least four observation satellites, development of the ground segment, launch of the satellites into orbit, and management of the space mission.
- "Mikroglob" project — a strategic satellite system for Poland
- "PIAST" project — a constellation of military observation satellites in orbit



TD 1 On-board Data Subsystems

TD 2 Space System Software

TD 3 Space Systems Electrical Power

TD 5 Space System Control

TD 6 RF Subsystems, Payloads and Technologies

TD 8 System Design & Verification

TD 9 Mission Operation and Ground Data Systems

TD 10 Flight Dynamics and GNSS

TD 15 Mechanisms

TD 15 Mechanisms

TD 21 ThermalF

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ELPROMA ELEKTRONIKA Sp. z o.o.

33.20.Z Installation of industrial machinery and equipment and outfit

ELPROMA (founded in 1992) is a Polish manufacturer of advanced M2M telemetry devices for industry and automation. It also provides technologically advanced solutions in the field of IT time synchronization. It is one of the world's leading manufacturers of IEEE1588 PTP/NTP time servers. The company's latest achievement is the Sagnac optical interferometer – a sensor with dual applications in rotational seismology and as a FOG optical gyroscope.
The sensor boasts unique precision and its operation is independent of the Earth's gravity. When networked, it creates a fusion that allows the precise center of earthquakes to be determined from very long distances. This provides a new type of information useful in many fields of science, defense, and the space industry. Elproma also supplies precision inclinometers (tiltmeters) for leveling rocket launch platforms and measuring the stability of building structures, including critical infrastructure such as wind farms (energy generation) and hydroelectric dams.

MAIN PRODUCTS:

- PTP Grandmaster Clocks
- NTP TimeServer
- IEEE1588 GNSS Cybersecurity

ACHIEVEMENTS

- DEMETRA Horizon2020 project from GSA (EUSPA)
  - Synchronization of the GALILEO and DLR ground-based synchronization system
- GIANO - The first European professional GALILEO receiver with cryptographic anti-spoofing authentication from satellites. A joint project with Thales Alenia Space, PIK Time Systems, and the Polish Academy of Sciences (PAN).

TD 9 Mission Operation and Ground Data Systems

TD 10 Flight Dynamics and GNSS

TD 26 Others

Source: https://www.elpromaelectronics.com/pl/

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Extremo Technologies

72.11.Z Research and experimental development on biotechnology

Extremo Technologies sp. z o.o. is a Polish technology company operating in the field of space biotechnology and bio-regenerative life support systems (BLSS). The company conducts research and development in Poland, focusing on the use of extremophilic microalgae for closed cycles of oxygen, carbon dioxide, and biomass in extreme conditions, including microgravity. The work carried out in Poland includes: laboratory research and development of bio-regenerative technologies, design and testing of BLSS prototypes, preparation and operation of space experiments, analysis of data from orbital missions, and development of space technology applications for the terrestrial sector (life support, air quality, sustainability). Extremo Technologies implemented the Space Volcanic Algae experiment on the International Space Station (ISS) and is developing proprietary hardware and system solutions that could be used in future manned missions.

MAIN PRODUCTS:

- Bio-regenerative life support systems based on microalgae, bio-panels for CO2 absorption and oxygen production, biological experiments in microgravity conditions
- Design and integration of biological payloads for space missions
- Development of closed biological cycles for space and analog habitats
- R&D services in the area of space biotech and life support

ACHIEVEMENTS

- Implementation of the Space Volcanic Algae experiment on the International Space Station (ISS) as part of the IGNIS (Axiom-4) mission, involving research on extremophilic microalgae in microgravity conditions.
- Design and integration of a proprietary biological payload for orbital applications.
- Development of bio-regenerative life support systems for closed oxygen and CO_2 cycles.
- Participation in the ESA BIC Poland incubation program and the development of Polish competence in space biotech and life-support systems.

TD 14 Life & Physical Sciences

TD 22 Environmental Control & Life Support (ECLS) and In Situ Resource Utilisation (ISRU)

Source: https://inkubator.pwr.edu.pl/startupy/extremo-technologies

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Eycore Sp. z o.o.

26.11.Z Manufacture of electronic components

Eycore Sp. z o.o. is a Polish technology company headquartered in Warsaw, specializing in the development of advanced radar technologies for space applications. The foundation of the company's operations is the knowledge and extensive experience of its founders in the design, production, and delivery of military-grade radars. These competencies enabled the ambitious project of developing and implementing one of the most advanced solutions in space radar – a modular synthetic aperture radar (SAR) sensor.
Eycore's mission is to provide global access to SAR technology to entities that need it most. To this end, the company has developed a satellite-based, modular radar sensor, fully integrated with any satellite platform. This solution allows customers to design and customize satellites or entire constellations to their individual, specific requirements, based on proven, commercially available components.

MAIN PRODUCTS:

- Modular SAR sensor – as a payload – designed to enable quick and easy self-integration with any satellite of the customer's choice.
- Alternatively, at the customer's request, the company can integrate its SAR payload with the satellite platform, leveraging its own partnerships with trusted and reputable integration and launch providers.

ACHIEVEMENTS

TD 6 RF Subsystems, Payloads and Technologies

- Eycore has been selected as a key partner in the consortium implementing the national CAMILA satellite constellation for Poland, commissioned by the Polish Ministry of Development and Technology and under the auspices of the European Space Agency.
- Eycore is responsible for the development and delivery of the synthetic aperture radar (SAR) sensor in the project.

Participation in this strategic consortium is a strong testament to the company's international expertise.

Source: https://www.eycore.com/

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GIAP Sp. z o.o.

62.01.Z Computer programming activities

GIAP is a leading provider of advanced GIS (Geographic Information Systems) solutions, playing a key role in the digital transformation of Polish public administration and business. The company specializes in integrating multi-source data — from ground-based measurements, through aerial photogrammetry, to satellite data — creating integrated analytical ecosystems. GIAP software enables precise investment planning, urban planning management, and environmental monitoring through advanced 3D visualizations and comparative terrain analysis. With a broad portfolio of dedicated mapping portals, the company supports local government units in automating analog processes, providing tools for effective spatial information management.

MAIN PRODUCTS:

- GIS software
- Systems for integrating satellite, aerial, and photogrammetric data.
- Dedicated map portals for investors and residents.
- 3D data portals based on Digital Terrain Models (DTMs).
- Online tools for project visualization and shading analysis.

ACHIEVEMENTS

- Over 300 Geographic Information System implementations nationwide.
- Implementation of the Geographic Information System for the City of Rzeszów.
- Development and implementation of SIP solutions for Gorzów Wielkopolski, Leszno, and Sopot.
- Co-authorship of the GeoDatabase for the City of Gdańsk and co-development of the MeSIP system.
- Key partner for local governments in the digitization of urban planning processes.

TD 26 Others

TD 2 Space System Software

TD 8 System Design & Verification

TD 9 Mission Operation and Ground Data Systems

Source: https://www.facebook.com/NaMapie/

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ITTI Sp. z o.o.

62.01.Z Computer programming activities

ITTI is a Polish technology company based in Poznań, operating since 1996, that has established itself as an expert in the space and IT sectors.
The company specializes in developing dedicated, mission-critical software supporting satellite mission control, the ground segment, and advanced communication protocols. As a trusted partner of the European Space Agency (ESA), ITTI integrates complex systems and implements innovative research and development projects at the intersection of space, cybersecurity, and crisis management. The company combines scientific expertise with practical technology implementation, delivering solutions that meet rigorous standards of reliability and data security.

MAIN PRODUCTS:

- Critical software for the control and management of satellite missions.
- Systems for control, monitoring, and integration of the ground and space segments.
- Advanced satellite communication systems and network protocols.
- IT solutions for cybersecurity and crisis management.
- Technologies supporting protection against biological and chemical contamination.

ACHIEVEMENTS

- Key Polish partner status in ESA, EDA, and European Commission projects.
- "Company of the Year 2019" title awarded by the Industrial Development Agency (ARP).
- Over 25 years of experience in the development of high-reliability IT systems.
- Successful commercialization of products utilizing space technologies in the civilian sector.

Source: https://www.facebook.com/itti.poznan/

- TD 1 On-board Data Subsystems
- TD 2 Space System Software
- TD 8 System Design & Verification
- TD 9 Mission Operation and Ground Data Systems
- TD 11 Space Debris
- TD 12 Ground Station Systems and Networks
- TD 6 RF Subsystems, Payloads and Technologies
- TD 25 Quality, Dependability and Safety

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Kosmok

30.30.Z Manufacture of air and spacecraft and related machinery

Kosmok is an innovative space startup developing key technologies for servicing and refueling satellites directly in orbit. The company's mission is to create a sustainable space ecosystem by extending the operational life of satellite systems, radically changing the approach to space fleet management. Kosmok focuses on standardizing satellite interfaces and building automated docking systems, striving to create a complete propellant supply chain in space in the future. With solutions based on open standards and artificial intelligence, the company enables mission operators to increase the flexibility and cost-effectiveness of their operations.

MAIN PRODUCTS:

- CIRI – a standardized interface for in-orbit refueling of satellites.
- AI-based relative navigation system for precise docking.
- Specialized solenoid and control valves for propulsion systems.
- Optical markers to support visual navigation during approach.

ACHIEVEMENTS

- Implementation of the ADONIS project within the ESA Phi Lab Poland incubator.
- Participation in the prestigious ESA BIC Poland 2024-2025 acceleration program.
- Qualification and participation in the Huge Thing acceleration program.
- Development of technologies supporting sustainable and agile orbital use.

TD 11 Space Debris

TD 13 Automation, Telepresence & Robotics

TD 8 System Design & Verification

TD 19 Propulsion

Source: https://www.linkedin.com/company/kosmok/

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KP Labs Sp. z o.o.

72.19.Z Other research and experimental development on natural sciences and engineering

KP Labs is a Polish engineering center based in Gliwice, a leader in satellite autonomy and on-board data processing. The company specializes in the design of advanced data processing units (DPUs) and artificial intelligence-based software that allows satellites to independently analyze images and telemetry without the need to transmit raw data to Earth. With a comprehensive approach, from hardware development, through AI algorithms, to hardware-in-the-loop validation systems, KP Labs provides solutions that increase the efficiency of observation and science missions. The company is a key partner of the European Space Agency, setting standards in the intelligent space systems segment.

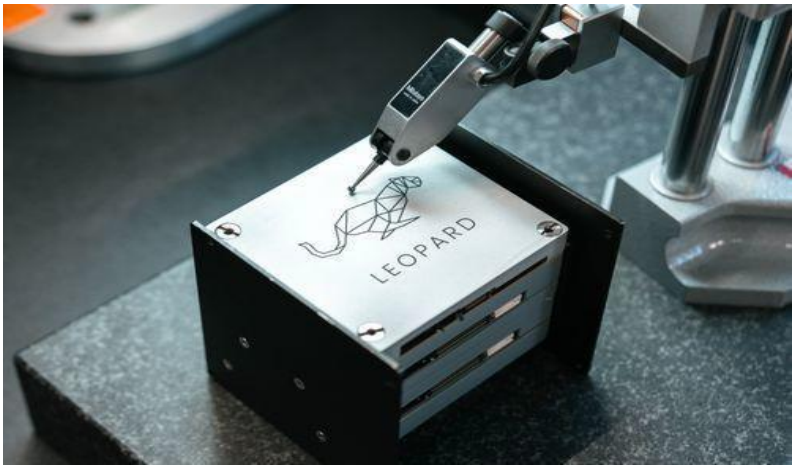
MAIN PRODUCTS:

- Leopard, Antelope, and Lion data processing units for autonomous missions.
- Oryx operating system and flight software for mission management.
- "The Herd" AI algorithms for EO image analysis and onboard telemetry.
- Smart Mission Lab (SML) platform for remote software testing.
- Tools for validation and verification of space systems (HIL).

ACHIEVEMENTS

- Launch and operation of the Intuition-1 satellite, demonstrating AI technologies in orbit.
- LeopardISS experiment on the International Space Station as part of the Ax-4 mission.
- Winning the prestigious ESA Innovation Award 2024 for innovation.
- Contribution to the Φsat-2 mission through the development of autonomous data selection systems.
- Successful implementation of on-board 3D mapping and hyperspectral analysis algorithms.

- TD 1 On-board Data Subsystems
- TD 2 Space System Software
- TD 5 Space System Control
- TD 8 System Design & Verification
- TD 9 Mission Operation and Ground Data Systems
- TD 23 Electrical, Electronic and Electro-mechanical (EEE) Components and Quality



Source: https://www.kplabs.space/

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Liftero Sp. z o.o.

Liftero

51.22.Z Space transport

Liftero is a Polish technology company specializing in the design and production of advanced satellite propulsion systems. The company focuses on the development of high-thrust chemical propulsion systems, which provide an efficient alternative to electric propulsion in missions requiring dynamics and reliability. Liftero's solutions enable rapid orbit changes, precise maneuvering, and deorbiting, significantly shortening the time to complete space missions. Thanks to their modular design and high technological maturity (TRL 8/9), the company's systems are easy to integrate and safe to operate on the ground. The company actively supports global operators in the development of in-orbit satellite servicing and increasing the autonomy of aircraft.

MAIN PRODUCTS:

- BOOSTER – a high-thrust chemical propulsion system for satellites 20–500 kg.
- Configurable propulsion systems with total impulse from 5 to 1000 kNs.
- Maneuvering systems with low electrical power requirements.
- Overheat-resistant propulsion systems capable of continuous operation.
- Modular interfaces and degrees-of-freedom (DoF) control systems for orbital missions

ACHIEVEMENTS

TD 19 Propulsion

- Development and launch of the first Polish satellite propulsion system.
- Successful in-orbit demonstration of the BOOSTER system on the RED5 satellite (SpaceX Transporter-13, 2025).
- Participation in India's first in-orbit refueling mission, AayulSAT (PSLV rocket, 2026).
- Reduction of orbital maneuver times by up to 10 times compared to electric propulsion.
- Full technology compliance with stringent ECSS aviation standards.

Source: https://liftero.com/

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MIRORES Mining Data Services

MIRORES Mining Data Services

72.19.Z Other research and experimental development on natural sciences and engineering

MIRORES Mining Data Services integrates remote sensing and geological data for mineral exploration on Earth and the Moon (and potentially on other celestial bodies). The company utilizes advanced far- and mid-infrared (F/MIR) spectrometers, adaptable to orbiters, drones, and laboratories, overcoming the limitations of traditional ore exploration methods. MIRORES's mission is to support the transition to a zero-emission economy and the development of space resource exploration. We support the mining and space industries in acquiring, processing, and interpreting geological data, ensuring optimal integration of diverse information sources. The MIRORES project, hosted at ESA BIC Poland, offers detailed geological interpretation and resources to support lunar prospecting, consolidating multi-source data from various lunar orbiters into a high-quality, "fused" dataset.

MAIN PRODUCTS:

- Design and construction of dedicated research equipment for space exploration,
- Development, processing, and interpretation of data from space missions,
- Consulting on the utilization of lunar and planetary resources (ISRU)
- Design and development of dedicated equipment for mineral exploration,
- Detection and mapping of mineral resources, geological data analysis, and expert consulting

ACHIEVEMENTS

- ESA Technology Transfer Award for UAV spectrometer (2023/24)
- ESA contract for the High-Resolution Lunar Mineralogy Mapper mission (signed December 2025)
- ESA Spark contract for a laboratory spectrometer for ground applications (2024/2025)
- ESA BIC Poland contract (2024–2026)

TD 6 RF Subsystems, Payloads and Technologies

TD 14 Life & Physical Sciences

TD 22 Environmental Control & Life Support (ECLS) and In Situ Resource Utilisation (ISRU)

Source: https://mirores.eu/

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Mobile Monitoring

26.51.Z Manufacture of instruments and appliances for measuring, testing and navigation

Mobile Monitoring is a Gdańsk-based company that creates solutions in the field of environmental monitoring and water safety. The company combines expertise in environmental monitoring, specialized drone use, and the use of satellite data from the Copernicus platform, as well as the design of water measurement and observation devices. Mobile Monitoring's offering includes a comprehensive water monitoring system composed of several components: buoys with sensors measuring key water parameters, AI cameras for 24/7 event detection and image analysis, and marine drones (USVs) for pollution mapping and water quality mapping. This is complemented by underwater drones (ROVs) for remote inspection, and an online system and mobile app providing real-time access to data.

Mobile Monitoring also showcases the use of its solutions in the scientific community – a case study from the University of Gdańsk highlighted the need for water research and monitoring using technologies such as drones, satellite data, and advanced sensors.

MAIN PRODUCTS:

- Autonomous monitoring systems and critical infrastructure,
- AI-based video analysis, integration of satellite and sensor data,
- Autonomous measurement buoys, vision and thermal imaging systems for monitoring difficult-to-access areas,
- Backends, dashboards, and data management systems,
- Design and integration of embedded and low-power systems

ACHIEVEMENTS

- Development and implementation of autonomous environmental and critical infrastructure monitoring systems
- Integration and correlation of satellite data with data acquired from buoys, drones, and cameras to verify incidents and increase the reliability of environmental and safety analyses.
- Implementation of the downstream space technologies project under the ESA BIC program
- Creation of a backend platform for managing a fleet of autonomous devices enabling remote monitoring, real-time data analysis, and automatic alerting.

Source: https://www.mobilemonitoring.pl/

TD 1 On-board Data Subsystems

TD 10 Flight Dynamics and GNSS

TD 12 Ground Station Systems and Networks

TD 13 Automation, Telepresence & Robotics

TD 16 Optics

TD 21 ThermalF

TD 26 Others

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N7 Space

62.01.Z Computer programming activities

N7 Space is a Warsaw-based software house specializing in embedded software for the space sector and solutions based on automatic code generation and validation (Model-Based Software/System Engineering). The company's mission is to support the space industry in creating even more reliable systems based on a formal approach to software development.
N7 Space specializes in providing onboard software for advanced satellite systems. Its solutions are easily modifiable and scalable for various satellite missions, including the most technologically advanced scientific missions.
N7 Space also offers dedicated software for a wide range of onboard systems based on SPARC or ARM microcontrollers, commonly used in small satellite missions, with applications running on real-time operating systems (RTOS) or without an operating system (bare-metal).

MAIN PRODUCTS:

- Critical software for on-board computers, satellite systems, payloads, and scientific instruments, on-board computers, and payload control units
- Qualified critical software compliant with ECSS standards
- Support for the implementation of MBSE tools
- ECSS-compliant independent software validation and verification (ISVV)

ACHIEVEMENTS

- Participation in ESA missions: PROBA-3, HERA, ARIEL, EnVision, Comet Interceptor, RAMSES
- Achieved TRL 9 (PROBA-3)
- Delivery of software components for the Chandrayaan-5/LUPEX mission
- Contracts with the European Southern Observatory (ESO), including the development of software controlling the ELT (Extremely Large Telescope)

TD 1 On-board Data Subsystems

TD 2 Space System Software

TD 8 System Design & Verification

TD 25 Quality, Dependability and Safety

Source: https://n7space.com/?page_id=308

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OPEGIEKA Sp. z o.o.

72.19.Z Other research and experimental development on natural sciences and engineering

OPEGIEKA is a Polish company operating in the GEO/ICT market since 1989. It implements business and scientific projects for clients in Poland, Europe, and the USA. It has the first level of industrial security, the ability to protect classified information classified as SECRET, EU SECRET, and NATO SECRET, and holds ISO 9001, 14001, and 27001 certifications. OPEGEIKA offers: a full chain of geospatial services in the areas of spatial data acquisition, processing, building IT systems, and delivering and maintaining products/services to end customers; its own aircraft, drones, LIDAR remote sensing sensors, and aerial large-format, medium-format, and thermal cameras; its own Tier III Datacenter operating under the DC4S.PL brand to build cloud services and technologies related to machine learning and data security; services, applications, analyses and maps based on spatial data obtained from the ground, drones, aircraft and observation and navigation satellites; also our own IT team that creates decision-supporting IT systems for business and public clients using commercial and open-source technologies such as GIS, ETL, and BigData.

MAIN PRODUCTS:

- Map portals, travel portals, management support systems, data warehouses, colocation, virtual servers, data security services, dedicated systems
- Vertical and oblique imagery, thermal and infrared imaging, orthophotomaps, laser scanning, 3D city models, analyses of greenery, crop conditions, paved surfaces, and aerial image quality
- Geodetic and cartographic solutions

ACHIEVEMENTS

- InsLab, a proprietary online platform for the agricultural insurance market, assessing and analyzing agricultural damage caused by frost, drought, heavy rain, and hail.
- CeriflAI, a proprietary software for assessing the quality of photogrammetric images and visual and infrared imaging for mapping agencies and aerial photography companies.
- SimplyGeo, a tool for the public administration market, for visualizing, measuring, and analyzing photogrammetric products such as orthophotomaps, oblique images, point clouds, and 3D mesh models.
- CENAGIS, a platform for research institutions, for analyzing spatial data in a big data architecture.

TD 8 System Design & Verification

TD 26 Others

Source: https://sky.opegieka.pl/

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P3RUN

62.01.Z Computer programming activities

The company began its operations in 2023 as a result of the transfer of knowledge and experience from the German Aerospace Center (DLR) in the field of radiation analysis of space systems and subsystems, the degradation of materials used in satellite construction, and radiation test support. Its core business is providing Radiation Hardness Assurance services, including determining the ionizing radiation doses (TID) and non-ionizing radiation doses (TNID) of EEE components, as well as particle fluxes and fluences for materials. This information is then used to conduct radiation tests. The company also provides radiation analysis services for space systems, subsystems, and individual components throughout all stages of the satellite construction and operation project. Analysis is performed in accordance with ECSS standards and using tools such as SPENVIS, MERE, OLTARIS, and the GRAS framework, which enables 3D Monte-Carlo analysis. In addition, P3RUN offers the following services: Support for radiation tests of electronics (TID, SEE), and support for radiation tests of materials using corpuscular and electromagnetic radiation.

MAIN PRODUCTS:

- Services related to radiation analysis of space systems, subsystems, and individual components throughout all stages of the satellite project, construction, and operation.
- Support for radiation testing of electronics (TID, SEE) and materials
- Analysis of data collected during radiation testing

ACHIEVEMENTS

- Guiding the COMPASSO space system of the German Aerospace Center (DLR) through the C phase of the project (CDR) in the field of radiation analysis of EEE components and the optical element set. COMPASSO will initially be tested on the International Space Station (ISS) and will ultimately be deployed on board the GALILEO satellite constellation.

TD 4 Space Systems Environments and Effects

TD 23 Electrical, Electronic and Electro-mechanical (EEE) Components and Quality

TD 24 Materials and Manufacturing Processes

Source: Open resources, available under a public license

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Phonemic Sp. z o. o.

62.01.Z Computer programming activities

Phonemic is a Polish engineering company providing design services in the FPGA and ASIC space. The company performs a full range of development work – from algorithm optimization at the mathematical level, through RTL design and verification, embedded software development, to system integration and the launch (bring-up) of FPGA solutions. The team's competencies include digital signal processing (DSP, including 5G/LTE), cryptography, and system-level design and integration. Phonemic also claims to have its own proprietary IP cores – from arithmetic cores (e.g., FFT, FIR, cryptography) to more complex radio processing blocks and voice interface solutions.

MAIN PRODUCTS:

- Design and integration of a complex SoC system: from specification to system launch (bring-up) on an FPGA platform.
- Specialized IP-Core components.
- Hardware acceleration of the target application (analysis of acceleration capabilities, identification of algorithm bottlenecks, performance analysis of possible hardware architectures, implementation and verification of the IP-Core)

ACHIEVEMENTS

- FPGA-based system for evaluating machine learning models (as part of an ESA mission).
- BCH error correction decoder for satellite communications (CCSDS standard).
- AES-GCM encryption component for aerospace applications.
- Solutions for telecommunications systems (Digital Front-End for LTE base stations, baseband coprocessor for NB-IoT).
- Numerous IP-Core components for cryptography and digital signal processing (DSP).

TD 1 On-board Data Subsystems

TD 2 Space System Software

Source: https://polsa.gov.pl/baza-podmiotow/phonemic-sp-z-o-o/

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Progresja S.A.

72.10.Z Scientific research and development work in the field of natural and technical sciences

Progresja S.A. provides advanced metal additive manufacturing services, primarily for the domestic space sector. The company conducts full 3D metal printing processes, as well as heat treatment, welding, and machining, in accordance with the requirements of the European Space Agency (ESA). The company supports Polish entities in effectively utilizing the potential of design optimization through the use of advanced manufacturing technologies, including 3D printing, laser and electron beam welding, and the implementation of next-generation materials such as high-entropy alloys, refractory materials, and metal matrix composites (MMCs). Progresja S.A. also develops its own materials, placing particular emphasis on shortening supply chains and utilizing domestic raw material resources, including secondary raw materials, to produce advanced materials for industrial and space applications.

MAIN PRODUCTS:

- Designing and optimization of structures for additive manufacturing of metals
- Development and testing of new metal alloys, including high-entropy and refractory alloys (tungsten, molybdenum, rhenium) for applications in space propulsion technology
- Implementation, development, and certification of advanced technologies: heat treatment; mechanical treatment (including 5-axis CNC, EDM); laser and electron beam welding

ACHIEVEMENTS

- The company has completed two ESA projects as Prime: ESA PLIIS and ESA OSIP.
- Currently, the company participates as a subcontractor and co-author in two ESA Advanced Manufacturing Initiative projects, supporting project leaders: Liftero Sp. z o.o. and Spacive Sp. z o.o.
- The company anticipates negotiating another contract with ESA as Prime in Q1 2026.

TD 24 Materials and Manufacturing Processes

TD 25 Quality, Dependability and Safety

Source: https://www.progresja.co/company

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Rectangle Sp. z o. o.

62.01.Z Computer programming activities

RECTANGLE is a technology company offering products and services that enhance the security of solutions used in positioning, navigation, synchronization and time distribution (PNT), and telecommunications.
RECTANGLE's solutions are designed for use in various market sectors, such as telecommunications, autonomous transport and logistics, aviation, critical infrastructure, and public safety.
The RECTANGLE team specializes in the development of navigation algorithms, hardware and software solutions for RF receivers, techniques for detecting and mitigating the impact of radio interference, data fusion, and software development for FPGAs and system-on-a-chip platforms.

MAIN PRODUCTS:

- 3diRECT - An advanced anti-jamming device that provides advanced protection for GNSS signals delivered to navigation or timing receivers.
- The RTS-1000 is an integrated GNSS-based time synchronization and distribution solution that enables ultra-precise time synchronization and distribution at the sub-nanosecond level.

ACHIEVEMENTS

- Recovering the contract from EUSPA for the development of a Galileo reference timing receiver.
- Designing a solution compliant with the requirements of the CEN/CENELEC EN 16605:2024 standard.
- Developing a receiver capable of receiving the Galileo Timing Service (as part of Galileo Second Generation).
- Supporting the synchronization of European critical infrastructure through precise time distribution.

TD 1 On-board Data Subsystems

TD 2 Space System Software

TD 6 RF Subsystems, Payloads and Technologies

7 Electromagnetic Technologies and Techniques

TD 10 Flight Dynamics and GNSS

TD 12 Ground Station Systems and Networks

TD 26 Others

Source: https://pl.linkedin.com/company/rectangle-sp-z-o-o

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Redwire Poland

30.30.Z Manufacture of air and spacecraft and related machinery

Redwire (REDWIRE) is part of the international Redwire Group, which develops technologies and solutions for the space sector. In Poland, the company operates through a Warsaw branch focused on mechanical engineering for satellite systems. The Warsaw team specializes in the design and structural and thermal analysis of satellite platforms, docking systems, and payloads. The branch also provides assembly, integration, and test (AI&T) support, including areas related to mechanics and structures, as well as structural and thermal testing.

MAIN PRODUCTS:

- Mechanical and thermal engineering services
- Exploration project support
- Low-profile and flexible solar panels

ACHIEVEMENTS

- Participation in the construction of the IBDM (International Berthing and Docking Mechanism) for the GATEWAY lunar station.

TD 3 Space Systems Electrical Power

TD 6 RF Subsystems, Payloads and Technologies

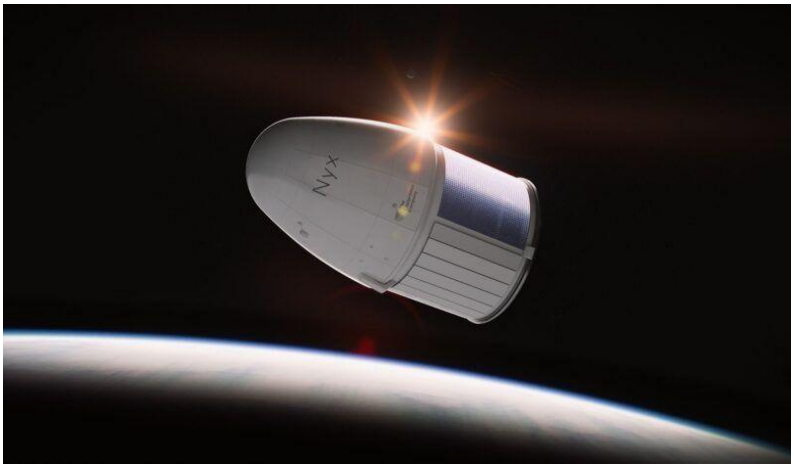
TD 8 System Design & Verification

TD 15 Mechanisms

TD 20 Structures

TD 21 ThermalF

TD 24 Materials and Manufacturing Processes



Source: httpshttps://pl.linkedin.com/company/redwire-space-europe

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SATIM

74.90.Z	Other professional, scientific and technical activities n.e.c.

SATIM is a Cracow-based deep tech company that develops advanced solutions for the automated analysis of SAR satellite radar imagery using artificial intelligence. Its technology transforms large volumes of complex SAR data into actionable insights, helping international clients in the defence, security, intelligence and critical infrastructure sectors to enhance situational awareness, make operational decisions and undertake strategic planning. SATIM's solutions are used by the Centre for Maritime Technology on the Digital Baltic platform, which is used to monitor the situation in the Baltic Sea. SATIM also collaborates with global leaders including Rheinmetall, Thales, ICEYE, Synspective, URSA Space, Capella Space, Umbra, SkyFi and Airbus.

MAIN PRODUCTS:

- OREC – AI models for the detection and classification of objects (ships, vehicles, aircraft) in very high-resolution SAR images
- OREC-Max – software for the detection and classification of objects in acquired low-, medium- and high-resolution SAR images
- OREC-Intelligence – software that automatically analyses acquired SAR images and notifies the user of changes of interest in the observed areas

ACHIEVEMENTS

TD 9 Mission Operation and Ground Data Systems

- Achieving the highest precision scores (F1 Scores) on the market and the largest catalog of classified objects
- A contract to supply German Army with remote sensing technology
- Obtaining confirmation of operational readiness during NATO's CWIX exercises
- Recognised as one of the 18 most important European defence start-ups according to the German newspaper Handelsblatt

Source : https://satim.prowly.com/440270-rheinmetall-and-satim-sign-technology-supply-agreement-support-for-german-customer-in-sar-programme

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Scanway S.A.

Scanway space

26.11.Z Manufacture of electronic components

Scanway S.A., a Polish company based in Wrocław, is a key European supplier of optical systems to the space sector, specializing in the design and integration of advanced optical payloads for Earth observation satellites, lunar missions, and dual-use systems. The company has a proven flight heritage and implements projects for commercial, institutional, and defense clients in Europe, the US, and Asia. Scanway's most important projects include SOP telescopes for the EagleEye mission and the Polish PIAST reconnaissance constellation, SCS vision systems used on the inaugural flight of the Ariane 6 rocket, multispectral instruments for the NarSha constellation, and the development of Poland's largest VHR optical telescopes for the SEMOViS constellation. The company also actively participates in lunar exploration projects, including the commercial Intuitive Machines orbital mission and the ESA Mani and LUMI programs, while also developing European competence in lunar data processing.

MAIN PRODUCTS:

- A modular family of high-resolution Scanway Optical Payload (SOP) telescopes for nano- and microsatellites (EO, VHR, multispectral, VIS/NIR/SWIR), with proven flight heritage.
- Vision systems and cameras for monitoring, self-diagnostics, and in-space servicing: Scanway Camera System (SCS).

ACHIEVEMENTS

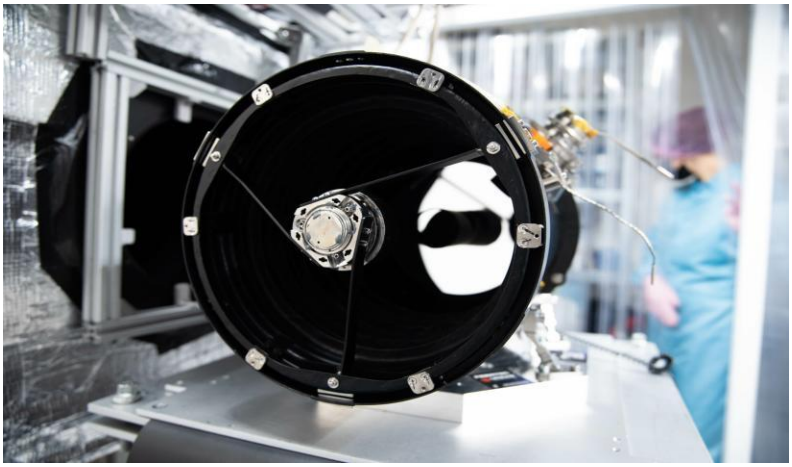
- Design and delivery of optical instruments for the Polish PIAST reconnaissance constellation.
- Design and deployment of the Scanway vision system on the inaugural flight of the Ariane 6 rocket (YPSat mission).
- Design and delivery of a high-resolution optical telescope for the EagleEye mission.
- Development of VHR technology and participation in lunar projects, including Mani (ESA) and the Lunar Data Network.

TD 1 On-board Data Subsystems

TD 13 Automation, Telepresence & Robotics

TD 16 Optics

TD 17 Optoelectronics



Source: https://polsa.gov.pl/baza-podmiotow/scanway-s-a/

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Semicon Sp. z o. o.

46.50.Z Wholesale of information and communication equipment

Semicon Sp. z o.o. is a technology company with over 38 years of experience in the electronics industry. We specialize in high-reliability end-to-end electronics manufacturing (EMS), tailored to the demanding requirements of space, military, and medical applications. The company boasts advanced machinery and an ISO 8 cleanroom. Semicon adheres to rigorous IPC Class 3 and J-STD-001 Space Addendum quality standards. The company combines manufacturing expertise with a broad distribution offering of electromechanical components, thermally conductive materials and industrial tapes, PCBA chemicals and protective coatings, ensuring full supply chain traceability and engineering support.

MAIN PRODUCTS:

- Manufacturing and integration (EMS) of aerospace, military, and medical electronics systems
- Distribution of EEE, COTS components, and converters
- Manufacturing of laser-cut SMT stencils and laser modules
- Manufacturing of specialized cable harnesses, including RF
- Cutting services for thermally conductive materials, EMC shielding materials, and industrial tapes, X-ray inspection, flying-probe testing, 532nm laser PCBA depanelization, and Galden® sheath soldering

ACHIEVEMENTS

- Implementation of assembly projects for NavTime-Rx earth observation, navigation, and positioning systems, and ground infrastructure
- Long-term collaboration with national and European space centers
- Participation in advanced R&D projects in the area of new assembly technologies
- Implementation of IPC and J-STD Class 3 Space Addendum quality standards

TD 17 Optoelectronics

TD 21 ThermalF

TD 23 Electrical, Electronic and Electro-mechanical (EEE) Components and Quality

TD 24 Materials and Manufacturing Processes

TD 26 Others

Source: https://www.facebook.com/photo/?fbid=2245534255490430&set=ecnf.100057538206264&locale=pl_PL

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Sensorbite

62.02.Z Computer consultancy activities

SENSORBITE P.S.A. is a startup developing an innovative geospatial data analysis system using artificial intelligence. Combining satellite data, language models (LLM), and agent-based systems, the company offers modern tools for environmental monitoring, agriculture, and crisis management. The system enables interaction with spatial data in natural language, automatic processing of EO imagery, and integration with IoT data and local databases. SENSORBITE's scope of operations in Poland includes: providing satellite data processing services, developing and implementing decision support systems for crisis management, local governments, and agriculture, and developing cloud and on-premise architectures. The company operates in both B2B and B2G models, building solutions supporting municipalities, crisis management units, and the agri-environmental sector.

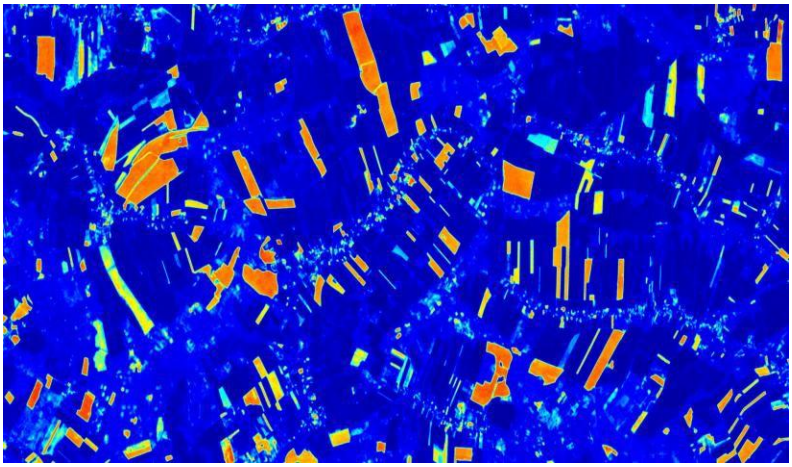
MAIN PRODUCTS:

- SENSORBITE Map Chat conversational interface for geospatial data analysis.
- EvacuAgent AI system for crisis management and evacuation.
- AgentAgro MRV remote sensing tool.
- AgenTown Municipality digital twin for spatial planning and land management.
- Web dashboard and Analytics API for automated data processing.

ACHIEVEMENTS

- Participation in the ESA BIC Poland incubation program
- Participation in the ESA Accelerate Crisis Preparedness program at ESA ESEC (Redu, Belgium)

TD 9 Mission Operation and Ground Data Systems



Source: https://sensorbite.com/pl/

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Siranga Sp. z o.o.

Siranga

26.51.Z Manufacture of instruments and appliances for measuring, testing and navigation

Siranga is a Polish deep-tech company based in Warsaw, developing groundbreaking imaging technology based on the quantum tunneling phenomenon. The core of the solution is its proprietary, patented QTIP (Quantum-Tunneling Image Photodetector) sensor, developed as part of the EQuanTIS (Extreme Quantum Tunneling Image Sensing) concept. The company's goal is to create tera-pixel sensors that exceed the limitations of typical imaging technologies (CMOS/CCD) and provide high sensitivity, including in very low-light conditions and cloud cover. Siranga's technology is positioned for space and near-space applications, including Earth observation (climate and environmental monitoring, precision agriculture, emergency response) and Space Situational Awareness (SSA) — supporting the detection and tracking of objects in orbit to improve satellite safety. The company is building its development on a strong IP portfolio (a family of 10 patents granted in seven countries) and is currently in the proof of concept/seed phase.

MAIN PRODUCTS:

- Quantum Tunneling Photodetector for Satellite Earth Observation

ACHIEVEMENTS

- Patent family of 10 patents for quantum tunneling in nanowires.
- Intellectual property protection obtained in seven countries.
- Proof-of-Concept prototypes developed in collaboration with NILT in Denmark.
- Initial testing conducted at the National Metrology Laboratory in Singapore.
- Commencement of the next phase of development with Lodz University of Technology and Obducat.
- Completion of incubation at ESA BIC Poland

TD 14 Life & Physical Sciences

TD 16 Optics

TD 17 Optoelectronics

TD 23 Electrical, Electronic and Electro-mechanical (EEE) Components and Quality

Source: https://siranga.eu/

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Warszawa

SpaceForest

SpaceForest
innovative solutions

72.19.Z Other research and experimental development on natural sciences and engineering

SpaceForest sp. z o.o. is a Polish company based in Gdynia, developing space, microwave, and defense technologies and supplying products for space/aerospace/defense applications. In the RF sector, it designs and manufactures SSPAs, LNAs, generators, antennas, and microwave filters, as well as their tuning tools (FTS). It also implements satellite projects, such as the X-band SSPA in collaboration with ESA and TESAT-Spacecom. Its key product is HUSSAR – a lightweight X-band SAR radar for integration with aerial platforms (including UAVs), and the company is simultaneously developing the PERUN suborbital rocket program and the RASEL system for tracking and communicating with aerial objects.

MAIN PRODUCTS:

- HUSSAR portable radar (www.hussarradar.com),
- PERUN suborbital rocket launch services,
- satellite components (SSPA amplifiers, frequency generators, microwave filters),
- design, production, and tuning of microwave filters,
- FTS: microwave filter tuning software based on artificial intelligence algorithms

ACHIEVEMENTS

- Development and commercialization of portable synthetic aperture radars (SAR)
- Development and successful flights of the PERUN suborbital rocket, commercialization of services
- Completed projects for the European Space Agency, commercialization upon completion
- Winner of three Pomeranian Gryf awards in 2025 (Innovations, Investments, Media Gryf)

TD 1 On-board Data Subsystems

TD 2 Space System Software

TD 6 RF Subsystems, Payloads and Technologies

7 Electromagnetic Technologies and Techniques

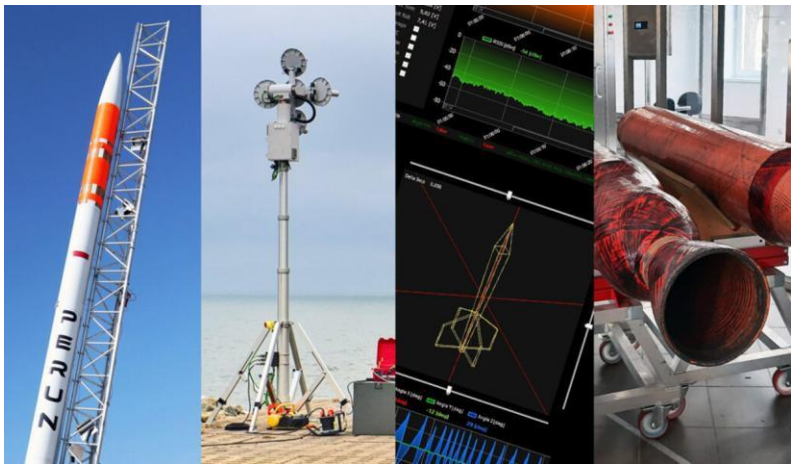
TD 8 System Design & Verification

TD 12 Ground Station Systems and Networks

TD 13 Automation, Telepresence & Robotics

TD 15 Mechanisms

TD 24 Materials and Manufacturing Processes



Source: https://spaceforest.pl/

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Spacive Sp. z o. o.

26.51.Z Manufacture of instruments and appliances for measuring, testing and navigation

Spacive sp. z o.o. is a Polish spin-off company founded in 2014 by managers and engineers from the Space Research Centre of the Polish Academy of Sciences. The company specializes in designing solutions for the space sector in the areas of thermal control, mechanisms, and structural and thermal analysis of satellites and their components. Spacive designs and manufactures MLI (Multi-Layer Insulation) thermal insulation, conducts thermal and vacuum tests, and conducts R&D on thermal control system components. The company has infrastructure for thermal testing (including a temperature range of approximately -180°C to +150°C, vacuum up to 10e-7 mbar, and ISO 8 cleanroom conditions). The company's significant experience includes work on the thermal control system for the STIX instrument on the Solar Orbiter mission and the implementation of two ESA PLISS projects related to the development and qualification of MLI technology.

MAIN PRODUCTS:

- Design and production of MLI thermal insulation
- Conducting thermal-vacuum tests
- Performing structural and thermal analyses of satellites and their components
- Designing thermal control systems for satellites and space probes
- Constructing mechanisms and structures for space applications
- Designing and manufacturing thermal-vacuum chambers

ACHIEVEMENTS

- Solar Orbiter - STIX - Spacive engineers have prepared the thermal control system.
- PLISS - implementation of two ESA projects related to the development and qualification of MLI technology.
- Delivery of volatile components (MLI and Thermal Strap) for satellite installation

TD 3 Space Systems Electrical Power

TD 15 Mechanisms

TD 21 ThermalF

TD 24 Materials and Manufacturing Processes

Source: https://polsa.gov.pl/baza-podmiotow/spacive-sp-z-o-o/

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Spectator Earth Sp. z o.o.

63.11.Z Data processing, hosting and related activities

Spectator sp. z o.o. specializes in creating advanced geoinformatics systems based on satellite data and making them available to clients at various levels of processing. The flagship Spectator / spectator.earth platform enables monitoring of any area of the Earth, simultaneously providing information on imaging capabilities and timing, which is crucial for rapid response systems, smart cities, and water monitoring, among other applications. Thanks to personalized accounts, users can use dedicated analytical modules that allow not only access to data but also to information resulting from advanced analysis. The company, with experience in collaborating with organizations such as the European Space Agency, Geoscience Australia, and the European Commission, leverages unique competencies in GIS, remote sensing, computer vision, and AI algorithms.
The Spectator application simplifies working with satellite data through modern solutions such as a semantic search engine and user collaboration features, enabling more natural and effective analysis.

MAIN PRODUCTS:

- Spectator.earth web platform - exploration, visualization, and processing of satellite imagery
- Monitoring and forecasting of EO missions
- Access to high- and low-resolution imagery archives.
- Spectator.earth API
- GIS integrations - easy integration with QGIS and ArcGIS.

ACHIEVEMENTS

TD 12 Ground Station Systems and Networks

- Building and developing a global satellite monitoring platform for thousands of users.
- Implementing advanced systems for the European Space Agency and the European Commission.
- Providing geoinformatics solutions for the government agency Geoscience Australia.
- Introducing innovative analytical tools based on semantic search and advanced APIs.
- Creating modules for direct processing of satellite data in a web browser.

Source: https://pl.linkedin.com/company/spectatorbit?trk=public_post_feed-actor-name

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Sybilla Technologies Sp. z o. o.

62.10.Z Computer programming activities

The team is comprised of experts in photometry and astrometry, combining academic knowledge with experience to deliver precise data and analyses that underpin decisions in the SSA field. This professionalism and high data quality allow the company to participate in strategic EU defense programs: EDF (SPRING) and EDIDP (SAURON, INTEGRAL), while also developing proprietary technologies for early warning, monitoring, and analysis of space threats.

Sybilla Technologies manages one of the largest observation networks in Europe and globally, spread across six continents, enabling observations to cover almost the entire sky. Furthermore, it has designed and delivered over 55 SST sensors for institutional and commercial clients worldwide.

MAIN PRODUCTS:

- Perseus / Hercules / Orion – stationary systems of advanced telescopes for monitoring objects in LEO-GEO orbits,
- Hydra – a multi-tube system for characterization and identification of objects in orbit,
- Ursa Minor – a mobile telescope for rapid deployment,
- Ursa Major – a multi-tube system capable of tracking over 100 objects simultaneously,
- ABOT – full automation of observatories and management of their entire network, including observing session planning,

ACHIEVEMENTS

- Construction of the POLON network – a global system of remotely operated, technologically advanced telescopes for the Polish Space Agency;
- Management of international consortia in contracts with ESA (European Space Agency), such as EON (European Optical Network) and GEON (Global European Optical Network), which form the foundation of Europe's space security infrastructure;
- Construction and maintenance of our own, independent catalog of approximately 1,000* satellite objects (*2025);
- One of the main commercial data providers to the EU SST consortium.

TD 11 Space Debris

TD 12 Ground Station Systems and Networks

TD 13 Automation, Telepresence & Robotics

TD 14 Life & Physical Sciences

Source: https://sybillatechnologies.com/newsroom//

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Tatra Space

62.09.Z Other information technology and computer service activities

TatraSpace is a Wrocław-based engineering team specializing in embedded software for the space sector. As a group of experienced engineers, they support other companies in designing on-board systems, integrating them, and implementing quality-enhancing procedures. Our overarching credo is the belief that creating high-quality solutions doesn't have to be demanding, and that testing itself can become an easy and intuitive process. Tatra Space helps its partners overcome technological barriers and implement ECSS quality standards in an accessible and effective manner. The company is developing the WisentWire platform (a project supported by ESA BIC Poland), which aims to enable full, remote interaction with embedded systems. This solution is designed to support entire engineering teams in diagnostics, monitoring, and ongoing interaction with hardware in a laboratory or distributed environment. WisentWire is designed to facilitate the implementation of advanced Hardware-in-the-Loop (HIL) system testing, enabling rapid design validation and effective quality improvement of final satellite systems at an early stage of development.

MAIN PRODUCTS:

- WisentWire – a platform for remote testing and real-time hardware management.
- Distributed diagnostic, monitoring, and automation systems for device validation.
- Design and implementation of automated Hardware-in-the-Loop (HIL) workstations.

ACHIEVEMENTS

- Development of WisentWire technology supported by ESA BIC Poland
- Providing scalable and testable solutions for the industry

TD 2 Space System Software

TD 8 System Design & Verification

TD 25 Quality, Dependability and Safety

Source: https://www.linkedin.com/company/tatraspace/

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Thaliana Space

THALIANA SPACE

71.12.Z Engineering activities and related technical consultancy

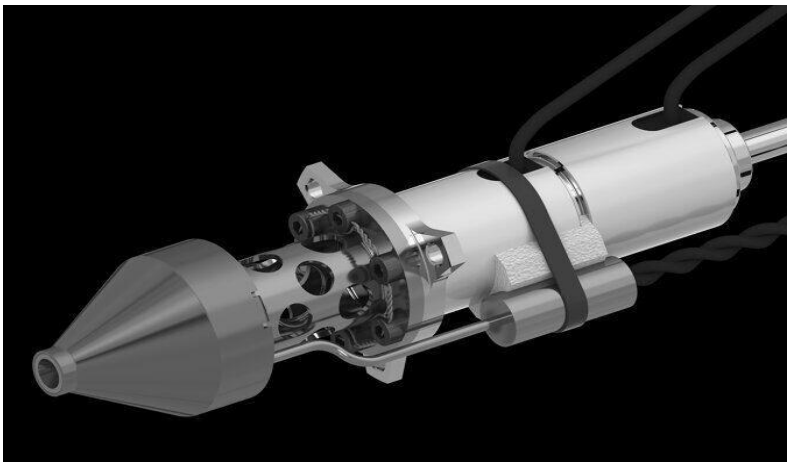
Thaliana Space is a Polish technology company stemming from the Łukasiewicz Research Network – Institute of Aviation, specializing in the development of innovative solutions for space and rocket propulsion. The company focuses on eco-friendly technologies, particularly those utilizing hydrogen peroxide, and implements the full design cycle – from concept and prototyping, through manufacturing, to rigorous acceptance testing. The company's scope of operations in Poland includes the supply of complete propulsion systems and components, as well as the development and integration of components for satellites and rockets. Thaliana Space provides comprehensive support in the preparation and implementation of functional and qualification tests, along with advanced data analysis, while also offering assistance with system integration and the creation of design documentation. The company is also actively conducting development work in the future areas of in-space transportation and in-orbit refueling.

MAIN PRODUCTS:

- Two-component liquid propellant rocket engines
- Solid propellant rocket engines
- Rocket propulsion system components
- Qualification and acceptance testing

ACHIEVEMENTS

- Delivery of rocket engines for MaiaSpace, constituting the main propulsion of the last stage of the rocket - the Colibri stage (kick-stage).



Source: https://thaliana.space/products/

TD 11 Space Debris

TD 15 Mechanisms

TD 18 Fluid Dynamics

TD 19 Propulsion

TD 20 Structures

TD 24 Materials and Manufacturing Processes

TD 25 Quality, Dependability and Safety

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Thorium Space S.A.

30.30.Z Manufacture of air and spacecraft and related machinery

Thorium Space S.A. is a Polish technology company conducting R&D in the field of satellite telecommunications. The company develops advanced satellite communication systems for the terrestrial and space segments, targeting commercial, government, and defense applications. Supported by the European Union, the Ministry of National Defense, and the European Space Agency (ESA), among others, its development efforts focus on highly flexible beam control, coverage shaping, and power and bandwidth allocation. The company's portfolio includes satellite terminals based on active, flat array antennas with electronic beam control and Ku/Ka band transmission (including the AURORA terminal prototype, designed for use with GEO and MEO/LEO satellites), as well as SATCOM chipsets and telecommunications payloads. In the payload area, the company is designing and verifying several variants, including a solution developed jointly with ESA and SWISSto12 for a geostationary satellite (HTS) and a smaller variant implemented for the Ministry of National Defense (funded by the National Center for Research and Development). Thorium Space also participates in development initiatives related to terminals (including as a subcontractor for AIRBUS in the IRIS2 program).

MAIN PRODUCTS:

- Ka-band communications payload,
- Ka-band beamforming integrated circuits (BFICs) (ground and space)
- Ka-band and Ku-band AESA antennas
- Flat-panel SATCOM terminals

ACHIEVEMENTS

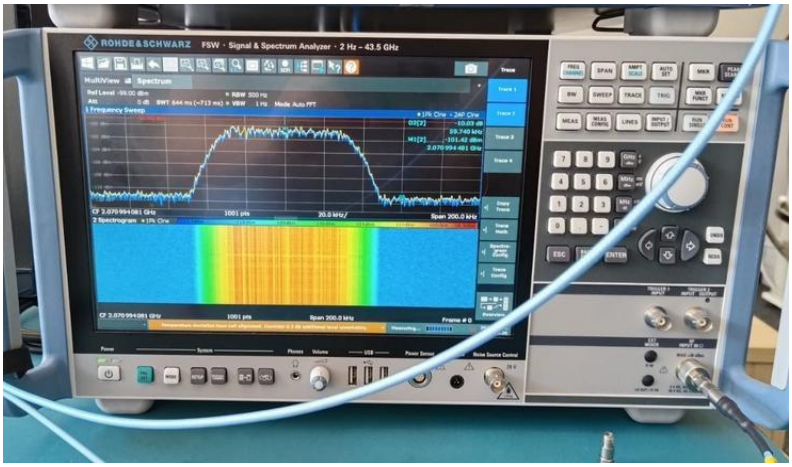
- In 2024, Thorium Space joined the ESA HummingSat program, developing a Ka-band digital telecommunications payload for a GEO satellite.
- The company is collaborating with Sievers Semiconductors AB on Ka-band BFIC (TX/RX) systems for the ground and space segments.
- A demonstrator of a fully digital, adaptive Ka transponder (space segment) is being developed for the Ministry of National Defense.
- Thorium Space is developing a remote sensing and communications system for the ILR-33 Amber suborbital rocket (Łukasiewicz – Institute of Aviation).

TD 1 On-board Data Subsystems

TD 6 RF Subsystems, Payloads and Technologies

7 Electromagnetic Technologies and Techniques

TD 12 Ground Station Systems and Networks



Source: https://pap-mediaroom.pl/biznes-i-finanse/

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Wasat Sp. z o.o.

61.20.Z Activities in the field of resale of telecommunications services and intermediation in telecommunications

Wasat Sp. z o.o. specializes in geoinformatics services based on satellite data (remote sensing), GIS, and GNSS. It develops and implements analytical solutions and decision-support tools, particularly for agriculture and the agro-industry (including precision farming applications). It also provides services to clients in the environmental protection and renewable energy sectors, where monitoring and interpretation of spatial changes play a significant role.
As part of projects with the European Space Agency (ESA), the company develops innovative approaches to processing and analyzing satellite data and the practical use of satellite navigation in application solutions.

MAIN PRODUCTS:

- Ferisat.com, a service for farmers, generates application maps for precise fertilization, sowing, and plant protection, as well as information on crop health based on satellite data. The radar module reduces the impact of weather on the preparation of mineral fertilization maps.
- Irriget.com, a service supporting irrigation decisions, displays field moisture and crop health, as well as maps/graphs of evaporation, water balance, and plant stress. It offers daily maps of actual evapotranspiration from satellite and weather data (20 m/pixel).

ACHIEVEMENTS

- The satellite-based services Fertisat and Irriget have gained significant market share in digital advisory support for farmers.
- These services have received numerous awards at agricultural fairs, and in 2025, Fertisat won the top prize in the pan-European Regiostars 2025 competition.

TD 26 Others

Source: https://wasat.pl/

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WiRan Sp. z o.o.

26.30.Z Manufacture of (tele)communication equipment

WiRan Sp. z o.o. is a specialized design office and supplier of radio frequency (RF) components for satellite applications, developing passive components and communication modules in the S, X, and L bands (e.g., diplexers, antennas, splitters, and couplers) for nanosatellites/CubeSats, among others.
The company has been operating since 2002 as a comprehensive supplier of RF solutions, with experience in the space, defense, maritime, railway, and IoT sectors. Since 2016, WiRan has been implementing projects for the European Space Agency (ESA) and is a member of the Polish Space Industry Association. WiRan manages the full development cycle of electronic devices – from concept and design (RF HW and firmware), through prototyping and measurements, to the preparation of engineering models and equipment delivery. Its testing facilities include, among others: The ELAB Measurement Laboratory (operated at the PPNT in Gdynia), where EMC/RFI testing and selected environmental tests (e.g., Faraday cage, climatic chamber) are conducted. WiRan's space portfolio includes solutions with high technological maturity, including products designated TRL 9 (flight proven)—for example, S-band components (diplexer and antenna).

MAIN PRODUCTS:

- Passive radio frequency devices for space applications.
- RF signal distribution systems.
- Antennas used in the ground segment.
- Design and prototyping of electronic devices.
- Support in resolving electromagnetic compatibility issues.
- Computer simulations and antenna placement optimization.

ACHIEVEMENTS

- TRL 9 S-band diplexer, antenna, and splitter flight equipment
- TRL 9 X-band diplexer and antenna flight equipment
- TRL 9 L-band splitter flight equipment
- TRL 7 X-band splitter flight equipment

TD 6 RF Subsystems, Payloads and Technologies

7 Electromagnetic Technologies and Techniques

TD 8 System Design & Verification

TD 12 Ground Station Systems and Networks

TD 23 Electrical, Electronic and Electro-mechanical (EEE) Components and Quality

Source: https://www.wiran.pl/

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Catalog of Polish SME entities in the aviation sector

Technology domains

The classification of technology domains in the aviation sector was developed based on the standards of the 8th EUCASS conference, focusing on key areas of aeronautics. This classification was intentionally modified to place a greater emphasis on production and operational aspects while limiting theoretical research areas. The methodology was supplemented with the Aviation Valley competence matrix, allowing for a precise reflection of the industrial potential of companies in areas such as aircraft structures, propulsion systems, and unmanned technologies.

- Aerostructures
- Propulsion and power systems
- Aircraft Avionics, Systems and Equipments
- Unmanned Aerial Systems Technologies
- Integrated Design and Validation (methods and tools)
- Innovative Concepts / R&D
- MRO / Inspection
- Air Traffic Management
- Airports
- Education / Training
- Digital Industry - Industry 4.0
- Materials / Composite Materials
- Other

4D Fusion

28.99.Z Manufacture of other special-purpose machinery n.e.c

4D Fusion sp. z o.o. is an innovative technology company that has designed, developed, and commercialized a proprietary, multi-material additive platform. The company's unique solution integrates classic Fused Deposition Modeling (FDM) printing with the innovative BFG deposition and extrusion method.
This system was created for the most demanding engineering applications, which require the use of custom polymer blends and advanced composites.
The company has advanced laboratory facilities that enable rapid material prototyping using minimal batch quantities (starting from a few grams), significantly accelerating research processes and reducing testing costs.
4D Fusion also provides comprehensive research and development (R&D) services for the industrial and scientific sectors. Additionally, in collaboration with a network of certified partners, the company ensures full verification of the mechanical and chemical properties of the resulting prints, supporting clients in the certification process of their final products.

MAIN PRODUCTS:

- 4D Fusion AM System – a platform combining FDM and BFG in a common motion system (multi-material printing, development, and prototyping).
- Material inserts for the proprietary BFG head and special materials for FDM – preparation and delivery of mixtures tailored to customer requirements.
- R&D, prototyping, printing, and testing services.

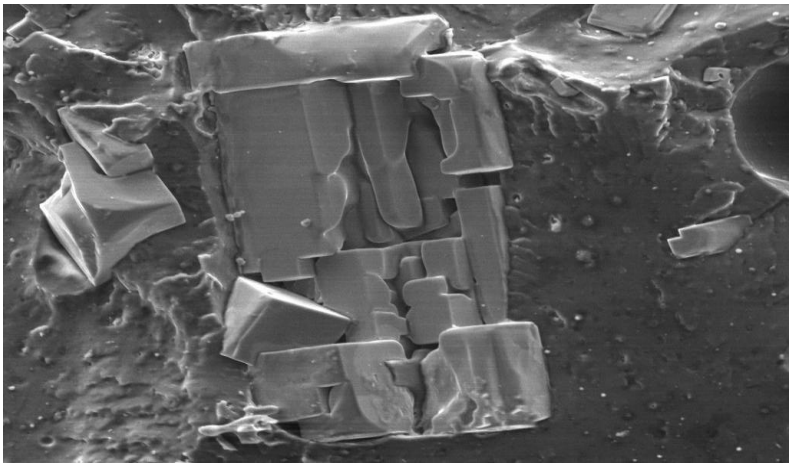
ACHIEVEMENTS

- Design and development of a proprietary, modular BFG printhead – patent pending.
- Demonstration of the ability to prototype composites with very high fill levels (exceeding ~80% by volume) – essential for applications requiring custom blends and functionalization.
- Demonstration of the application of technology to the production of functional sensor elements – work that led to a scientific publication on a reference solid-contact electrode manufactured using 3D printing.
- Building collaborations with numerous Polish scientific institutions – Military University of Technology, Institute of Physical Chemistry of the Polish Academy of Sciences, and entities of the Łukasiewicz Network.

Digital Industry - Industry 4.0

Materials /Composite Materials

Innovative Concepts /R&D



Source: https://4dfusion.eu/

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4Drive & Aviation

30.30.Z Manufacture of air and spacecraft and related machinery

4Drive & Aviation is a certified manufacturing organization specializing in providing the highest quality interior solutions for civil and general aviation. The company holds the prestigious EASA PART-21G (PL.21G.0015) certification, which authorizes the production and certification of Form 1 aircraft parts, guaranteeing compliance with stringent safety and quality standards in force in the European Union.
The company's core business is the design and production of upholstery and interior trim components for aircraft and helicopters. By combining advanced sewing technologies with craftsmanship, 4Drive & Aviation delivers products resistant to the specific conditions of aviation operation, while ensuring aesthetics and comfort.
As a supply chain partner, 4Drive & Aviation collaborates with both OEMs, maintenance organizations (MROs), and individual customers, offering products tailored to individual project requirements (Custom Interior).

MAIN PRODUCTS:

- Sewing seat covers, luggage nets, curtains, seat belts, and aircraft carpets
- Renovation of leather upholstery in helicopters and aircraft
- Minor Change design and EASA approval.

ACHIEVEMENTS

- Production of 24,000 seat covers for Boeing 737s.
- Minor Change project for Airbus EC-120/125/130 and Robinson R-22/44/66
- Collaboration with LOT, LPR, Jet Story, JB Investment and others.

Others

Source: https://4drive-aviation.com/pl/

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Aalberts Surface Technologies Heat Sp. z o.o.

25.61.Z Treatment and coating of metals

Aalberts Surface Technologies is one of the world's leading providers of specialized heat treatment and surface engineering services for the aerospace sector. The Kalisz facility serves as a key competence center in the region, offering advanced technological processes that improve the mechanical and structural properties of critical components. The Kalisz branch's core business focuses on vacuum heat treatment and vacuum brazing, a technology essential in the production of aircraft engine components, among other applications. The company performs precise hardening, tempering, and annealing processes in controlled atmospheres and specializes in surface hardening, including gas carburizing and carbonitriding. A modern laboratory facility is an integral part of Aalberts Surface Technologies' operations, enabling advanced microstructure analyses and hardness testing, ensuring full traceability and safety of the solutions delivered within the aerospace supply chain.

MAIN PRODUCTS:

- Vacuum heat treatment
- Vacuum brazing
- Low-pressure carburizing (LPC)
- APS, HVOF, and flame thermal spraying

ACHIEVEMENTS

Propulsion and power systems

- Obtaining the prestigious Nadcap accreditation for special processes (Heat Treating), confirming the highest technical proficiency in heat treatment for the aerospace sector.
- Implementing and maintaining a quality management system compliant with the AS/EN 9100 standard.
- Obtaining qualified supplier status and obtaining official process approvals for components manufactured for GE Aerospace.
- Implementing advanced heat treatment and brazing processes in accordance with Pratt & Whitney specifications and technological requirements..

Source: https://www.aalberts-st.com/pl/locations/kalisz/

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AVIACON Sp. z o.o.

46.14.Z Agents involved in the sale of machinery, industrial equipment, ships and aircraft

Aviacon is a leading Polish training and consulting center that has focused since its inception on providing specialized expertise for the air transport, logistics, and freight forwarding sectors. The company offers a wide range of certified training courses delivered in on-site, online, and e-learning formats, covering key areas of aviation safety and operations, such as Dangerous Goods Regulations (DGR), Safety Management System (SMS), Human Factors (HF), and the PART-145 and PART-M standards.

Since 2015, the organization has been rapidly expanding its Unmanned Aerial Vehicle Training Center, which goes beyond standard training for drone operators in visual line of sight (VLOS) and beyond visual line of sight (BVLOS). Aviacon integrates training with advanced engineering activities, including the design, construction, and maintenance of unmanned aircraft using 3D printing, robotics, artificial intelligence (AI), and virtual reality (VR). The company actively participates in international research and development projects, such as AIRVET, and, acting in a consortium with partners from Belgium, Italy, France and Spain, it prepared the prestigious report "Drone Strategy 2.0" commissioned by the European Commission".

MAIN PRODUCTS:

- Unmanned Aerial Vehicle (UAV/drone) training
- IATA-authorized aviation training
- Proprietary UAV technical training (drone construction and servicing)
- Air transport and logistics training

ACHIEVEMENTS

- Recognized by IATA as the best Authorized Training Center in Europe
- Establishment and development of the Unmanned Aerial Vehicle Training Center (since 2015)
- Development of our own professional qualification "Unmanned Aerial Vehicle Servicing"
- Implementation of international research, development, and educational projects at the EU level

Unmanned Aerial Systems Technologies

Education / Training

Source: https://www.facebook.com/lotnictwoaviacon/

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Aeroplan Sp. z o.o.

30.30.Z Manufacture of air and spacecraft and related machinery

Aeroplan is a specialized Polish design and manufacturing company, recognized as a key supplier of advanced composite propellers for the ultralight aviation sector and unmanned aerial systems. The company focuses on the production of high-performance components for both combustion engines and modern electrical systems. A key differentiator is the use of carbon composite technology, which allows for extremely lightweight products while maintaining exceptional stiffness and structural strength. A key pillar of the organization's activities is research and development (R&D) in the field of aerodynamics, including advanced mathematical modeling, prototyping, and comprehensive bench and flight testing. Aeroplan's design team specializes in optimizing blade geometry for precisely defined, non-standard operating conditions, which has paved the way for the company to collaborate on the most prestigious global missions.

MAIN PRODUCTS:

- fleXer propeller for ultralight aviation
- Aerokinetic propellers for UAV (drone) applications
- FlyBasket electric paraglider propulsion
- Carbon composite structures

ACHIEVEMENTS

- Development and launch of aeroresponsive carbon fiber propellers
- Gold medal at the 2024 and 2025 Paragliding World Championships
- World's lightest propeller in the PPG category
- Establishing cooperation with POLSA and NASA on propellers for Mars

Propulsion and power system

Unmanned Aerial Systems Technologies

Innovative Concepts / R&D

Materials / Composite Materials

Source: https://aero-plan.pl/

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Ceratizit Polska Sp. z o.o.

47.52.Z Retail sale of hardware, paints and glass in specialised stores

Ceratizit is a global leader in materials science and the production of advanced tooling systems. Its Krakow branch serves as a distribution and consulting center, providing tooling technologies for demanding industrial sectors, with a particular focus on aerospace. The company offers a comprehensive portfolio of tools for drilling, milling, turning, and threading, manufactured from high-quality cemented carbides and modern materials such as cermet and PCBN. Ceratizit solutions are optimized for machining materials used in the aerospace industry, including titanium, nickel-based superalloys (ISO-S), and aluminum, ensuring maximum production process reliability.

The Krakow team supports industrial partners in process optimization and quality monitoring, offering advanced tool and workpiece clamping systems. With brands such as WNT and KOMET, Ceratizit delivers "Best in Class" solutions, significantly reducing machining times while maintaining the highest geometric precision for aerospace components.

MAIN PRODUCTS:

- Production of semi-finished and finished tungsten carbide products
- Wide range of standard and specialty products for machining
- Dedicated team of specialists supporting the aerospace segment worldwide

ACHIEVEMENTS

Other

- A leader in special tools for aircraft skin assembly. Collaborations with companies such as Airbus and SpaceX.
- Specialist in HRSA and Titanium plate milling.

Source: https://businesspl.com/

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CEWAR Więch Spółka Jawna

46.74.Z Wholesale of wood, construction materials and sanitary equipment

Cewar is a dynamically developing Polish manufacturing and service company that has been providing advanced technological solutions for the most demanding industries since the early 1990s. Originally established as a trading and service provider, the company transitioned in 2012 toward advanced mechanical manufacturing. Investments in highly specialized technical expertise and modern machinery have allowed the company to build a strong position in the supply chain of the aerospace, machinery, and defense sectors. At the heart of Cewar's production operations is a modern machining center, capable of performing complex CNC turning and milling processes while maintaining the highest geometric tolerances. The company places particular emphasis on comprehensive service – from support during the design and process optimization stages, through the selection of appropriate materials and tools, to final execution and quality control.
By combining talented engineering staff with advanced manufacturing technologies, Cewar efficiently fulfills orders for highly complex parts, meeting the rigorous quality requirements set by its aerospace partners.

MAIN PRODUCTS:

- CNC and conventional turning,
- 3-axis CNC milling, 5-axis CNC milling,
- Grinding and metalworking,
- Precision measurements with Zeiss,
- Commercial offer (pumps, tools, milling cutters, heads)
- Dispensing machines.

ACHIEVEMENTS

- Establishing a position as a trusted partner and implementing a strategic, long-term collaboration with PZL Świdnik (Leonardo Helicopters) for the supply of components and tooling.
- Manufacturing specialized technological tooling dedicated to aircraft assembly and maintenance for leading entities in the aviation sector.
- Transforming into an advanced manufacturing center with a modern fleet of numerically controlled (CNC) machines for the precise machining of highly complex components.

Aerostructures

Integrated Design and Validation (methods and tools)

Digital Industry - Industry 4.0

Source: https://cewar.com.pl//

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Cloudless Sp. z o.o.

30.30.Z Manufacture of air and spacecraft and related machinery

Cloudless is an innovative Polish technology company specializing in the development of unmanned aerial vehicle systems for operations in the stratosphere and near space. The company focuses on HALE (High Altitude Long Endurance) and HAPS (High Altitude Platform Station) platforms, which provide an effective and flexible alternative to traditional satellite systems. Cloudless's primary goal is to enable the regular, rapid, and cost-effective delivery of remote sensing data, including large-scale, real-time imagery of the Earth's surface.

The company covers the full technology cycle – from the conceptual phase and airframe design, through their precise construction and integration with advanced payloads, to the full implementation of flight services and analysis of acquired data. Thanks to proprietary aerodynamics and power solutions, Cloudless UAVs are capable of sustained operation at operational altitudes inaccessible to standard aviation.

MAIN PRODUCTS:

- Stratospheric missions with customer payloads,
- Large-area VHR imaging,
- Atmospheric measurements,
- Cal/Val services for the space sector,
- Construction of unmanned aircraft and stratospheric probes.

ACHIEVEMENTS

- Stratospheric flights (above 12 km altitude) with unmanned aircraft in Polish airspace.
- Nearly 12-hour solar-powered flight in the troposphere.
- World's highest flight by an unmanned fixed-wing aircraft released from a balloon (as of the flight date) - 27,231 m above sea level (2019).

Unmanned Aerial Systems Technologies

Innovative Concepts / R&D

Source: https://cloudless.tech/

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Creotech Geo P.S.A.

61.10.B Other wired, wireless and satellite telecommunications activities

Creotech Geo P.S.A. is a specialized technology company established in May 2025 as a 100% subsidiary of Creotech Instruments S.A. The company's main goal is the commercialization and further development of advanced solutions based on drone and satellite applications. The key product in the company's portfolio is the Unmanned Traffic Management (UTM) system, which has been developed within the capital group for over five years. Currently, the company's activities focus on cooperation with the Polish Air Navigation Services Agency (PANSA) as part of the construction of a nationwide UTM infrastructure. Creotech Geo actively participates in the testing and implementation of new technologies for managing drone missions and general aviation (GA) flights. In parallel with the development of traffic management systems, the company conducts advanced work on proprietary products in the area of counter-UAS systems and innovative solutions that provide an alternative and support for global satellite navigation systems (GNSS back-up).

MAIN PRODUCTS:

- UTM system for mission planning and traffic management
- DTM Tools platform combining flight control with satellite communications and HAPS.
- SAMPLE satellite system for detecting aircraft obstacles.
- GNSS back-up and Counter-UAS technologies.

ACHIEVEMENTS

• Successful transfer of technological results from Creotech Instruments to feasible Creotech Geo structures.

• Achievement of the CDR (Critical Design Review) milestone within the DTM Tools project, available to the European Space Agency (ESA).

• Successful integration of unmanned air traffic management systems with satellite infrastructure and HAPS stratospheric platforms.

• Establishment of operational cooperation with the Polish Air Navigation Services Agency (PANSA) in implementing innovative wireless detection systems.

Unmanned Aerial Systems Technologies

Air Traffic Management

Education / Training

Source: https://creotech.pl/geospatial-services

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Curtis - Wright Surface Technologies

25.61.Z Treatment and coating of metals

CWST (Curtiss-Wright Surface Technologies) is a world leader in specialized surface engineering services, operating a global network of 75 manufacturing facilities. The company's Polish branch, in Głogów Małopolski, is a key competence center for Central and Eastern Europe, with links to OEMs in the aerospace, automotive, and energy sectors. The company specializes in advanced metal strengthening processes, essential for use in extreme conditions. Thanks to its technology certification, CWST enables extended access to parts with their mass engaged, which is crucial for data transmission and engines. The Głogów Małopolski facility is equipped with fully automated machinery, ensuring repeatability and completeness, with parameters compliant with key industrial standards. The company holds prestigious aerospace certifications, applications such as Nadcap and AS/EN 9100, and is licensed by the Ministry of Interior and Administration for defense projects.

MAIN PRODUCTS:

- Controlled shot peening of steel, aluminum, and titanium.
- Strengthening of turbine blades, rotors, drive shafts, and landing gear components.
- Automated surface treatment with full parameter monitoring.
- Part strengthening services for the defense and general aviation sectors.

ACHIEVEMENTS

Service- metal surface treatment

- Possessing the prestigious Nadcap accreditation for special processes (Surface Enhancement).
- Certification of the quality management system in accordance with the rigorous aviation standard AS/EN 9100 (AMS 9100).
- Obtaining a license from the Ministry of Interior and Administration to manufacture and trade products for military or police purposes.
- Holding official process approvals from leading OEMs in the aerospace and automotive sectors.

Source: https://www.cwst.pl/

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DRON.edu.pl

85.52.Z Out-of- school forms of cultural education

DRON.edu.pl is a leader in the Polish aviation education market for unmanned aerial vehicles (UAVs), with a nationwide network of training and examination centers. As an entity with exclusively Polish capital, the company sets standards in professional preparation of personnel for drone operation in the civilian, commercial, and public safety sectors.
DRON.edu.pl's offerings include comprehensive support – from theoretical courses delivered using modern teaching methods to specialized practical training led by experienced instructors nationwide. The company specializes in providing dedicated training programs for public institutions, including uniformed services and emergency services, where precise UAV operation is crucial to mission success. Thanks to its flexible approach and extensive infrastructure, DRON.edu.pl effectively implements drone technologies in various sectors of the economy, supporting enterprises in the process of digitizing and automating inspection and measurement tasks.

MAIN PRODUCTS:

- Certified training and exams for drone pilots (STS-01, STS-02).
- Specialized remote sensing courses (photogrammetry, thermal imaging, technical inspections).
- UAV inspection, measurement, and data analysis services
- Consulting on the financing and implementation of drone technologies in organizations.

ACHIEVEMENTS

- Effective implementation of a nationwide UAS training and examination system compliant with the EASA standard (STS-01, STS-02).
- Effective transfer of UAV technology to the industrial sector through specialized training in remote sensing and data analysis.
- Building competencies for key sectors of the economy, public institutions, and uniformed services.
- High effectiveness in implementing development programs financed from public and regional funds.
- Accelerating the adoption of unmanned technologies in the Polish economy through a scalable personnel certification model.

Education / Training

Unmanned Aerial Systems Technologies

MRO / Inspection

Innovative Concepts / R&D

Source: https://dron.edu.pl/

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eN-TANK Sp. z o.o. Sp. K.

25.29.Z Manufacture of other tanks, reservoirs and containers of metal

eN-TANK is a specialized supplier of technology and infrastructure for the storage and distribution of aviation fuels, liquid energy media, and chemicals. The company operates in key segments of the economy, providing advanced solutions for civil and military aviation, ports, vessels, and the industrial sector. The company specializes in the construction of high-capacity fuel transfer systems and innovative mobile systems compliant with ADR standards.
The company offers comprehensive support – from the design and production of specialized container stations to professional service and modernization of existing technical installations.
eN-TANK solutions are used by uniformed services, emergency services, and companies requiring the highest reliability in fuel operations. As an innovation-driven entity, the company implements proprietary fuel management systems and advanced transfer equipment, ensuring the efficiency of logistics processes in the most demanding operating conditions.

MAIN PRODUCTS:

- Containerized and mobile aviation fuel stations (ADR).
- High-performance pumping and distribution systems.
- Digital fuel management systems and IoT telemetry.
- Specialized transmission fittings and grounding systems.
- Service and modernization of aviation fuel systems.

ACHIEVEMENTS

- Delivering over 80% of fuel systems for the General Aviation sector in Poland over the last 20 years.
- Construction of multi-bay fuel stations with vending systems at key airports (including Warsaw-Babice, Poznań, Wrocław, and Mielec).
- Implementation of a prestigious aircraft refueling station project in the Alps (Altiport de Courchevel).
- Implementation of innovative JIG-compliant distribution systems integrated with mobile payments.

MRO / Inspection

Airports

Other

Source: https://en-tank.eu/

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EUROTECH Sp. z o.o.

30.30.Z Manufacture of air and spacecraft and related machinery

EUROTECH is a Polish technology company that has specialized in the design, development, and mass production of advanced systems for the aviation and defense sectors since 2001. A key area of its business is the provision of proprietary Unmanned Aerial Systems (UAS), designed from the ground up – from the airframe concept, through propulsion systems, to advanced on-board electronics.

The company distinguishes itself in the market for its ability to deliver turnkey systems, encompassing not only the aircraft itself but also the complete support infrastructure: from mobile launchers and ground control stations to dedicated operational software. Thanks to its in-house research and development facilities, EUROTECH is able to precisely customize products to meet specific, often unique, operational requirements of its customers. This approach allows for the effective use of its technologies in special, research, and military missions, where reliability and proprietary technological solutions provide a competitive advantage.

MAIN PRODUCTS:

- BSP HAASTA, BSP Vermin
- Mobile ground control stations
- Mobile launchers for unmanned systems
- Avionics and flight control systems
- Onboard power management systems
- Hybrid aircraft propulsion systems

ACHIEVEMENTS

- Successful development and production implementation of a number of proprietary products and technological systems.
- Triple win of the prestigious Defender Award at the International Defense Industry Exhibition (MSPO).
- Winner of the prestigious Wprost 2023 Eagles award for the most dynamically developing companies.
- Key quality and industrial certifications: ISO 9001:2015 and WSK (Internal Control System).
- Operating under a full license from the Ministry of Interior and Administration for the production and trade of products for military purposes.

Source: https://eurotech.com.pl/

- Propulsion and power systems
- Aircraft Avionics, Systems and Equipments
- Unmanned Aerial Systems Technologies
- Integrated Design and Validation (methods and tools)
- Innovative Concepts / R&D
- Digital Industry - Industry 4.0
- Materials / Composite Materials

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Fusioncopter Sp. z o.o.

FUSIONCOPTER

30.30.Z Manufacture of air and spacecraft and related machinery

Fusioncopter is a Polish technology company focused on the design, advanced research and development, and production of modern rotorcraft. The company specializes in aircraft designs that combine innovation with high functionality, encompassing both the manned gyroplane and helicopter segments. With its in-house engineering resources, Fusioncopter develops proprietary solutions that meet the growing market demand for lightweight and efficient aircraft. A key area of the company's development is advanced unmanned systems. Fusioncopter designs and builds unmanned helicopters with a takeoff weight of up to 600 kg, which are used in demanding civilian and specialized missions. The company places a strong emphasis on the safety and operational efficiency of its designs, striving to set new standards in the light aviation and unmanned vertical takeoff and landing platforms sectors (VTOL).

MAIN PRODUCTS:

- Unmanned helicopter system with a maximum take-off weight (MTOM) of up to 600 kg.
- Manned ultralight gyroplane meeting Part 103 requirements.
- Design and construction of innovative manned and unmanned rotorcraft.

ACHIEVEMENTS

- Successful completion of advanced research and development work on an unmanned helicopter weighing up to 600 kg.
- Completion of design and development work on an innovative, twin-engine, four-seat gyroplane (MTOM 1050 kg).
- Successful implementation of a single-seat ultralight gyroplane in the Part 103 category into series production.
- Development of proprietary engineering competencies in the design of complex rotorcraft structures.

Unmanned Aerial Systems Technologies

Innovative Concepts / R&D

Aerostructures

Source: https://fusioncopter.eu//

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Helix Solutions Sp. z o.o.

62.10.B Other programming activities

Helix Solutions is a dynamically developing technology company from Rzeszów, which has been providing advanced digital solutions for the industrial, aerospace, and defense sectors since 2018. The company specializes in creating tailor-made systems, integrating modern automation with artificial intelligence (AI). The company's strategy is based on organic growth and close collaboration with the academic sector, which allows for the transfer of the latest scientific achievements directly into business practice. Helix Solutions distinguishes itself in the market with its ability to connect distributed systems from various manufacturers into coherent, automated work environments. As an active member of the "Aviation Valley," the company places particular emphasis on innovation and data security. A key area of its business is optical quality control and advanced image analytics, implemented through proprietary AI and OCR models. The company is also committed to developing the regional IT ecosystem, supporting education and development of engineering staff.

MAIN PRODUCTS:

- AI system for visual inspection and defect detection (AVDI).
- Production management, MRO, and anomaly management systems (SILK, ANDON).
- Strategic goods inventory and RFID systems.
- Process automation (RPA) and project management tools.
- Dedicated IT integrations, standards databases, and AI solutions.

ACHIEVEMENTS

- Implementation of AVDI (Advanced Visual Detection Interface) – a proprietary AI system for quality control.
- Technology partnership with global aerospace leaders in Aviation Valley.
- Implementation of high-security systems for the strategic and public sectors.
- Effective transfer of AI technology and R&D results to industrial processes.

Innovative Concepts / R&D

MRO / Inspection

Digital Industry - Industry 4.0

Integrated Design and Validation (methods and tools)

Source: https://www.facebook.com/helixsolutionsfb/

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LAB TEST Sp. z o.o.

71.20.B Other technical testing and analysis

Lab-Test is a specialized research laboratory providing advanced services in materials engineering and quality control for industry. The company focuses on comprehensive diagnostics of metal products, castings, and welded joints, supporting production processes in sectors requiring the highest material reliability. Using precise emission spectrometry methods and advanced metallographic analysis, Lab-Test ensures reliable assessment of material structures, chemical composition, and mechanical properties.

As a PCA-accredited research laboratory, we perform projects for various industries, but we have a special connection with the aviation industry. First and foremost, our laboratory's recognition for testing for the Safran Group. We collaborate with, among others, Safran Transimsion in Sokołów Małopolski. We undergo regular audits to maintain the certificate, which is required to perform tests for aviation companies within the Safran Group.

MAIN PRODUCTS:

- Specialized metallographic testing of steel, cast iron, and welded joints.
- Assessment of material defects and quantitative analysis of structural components.
- Mechanical testing of metals and evaluation of parameters after heat treatment.
- Spectrometric analysis of the chemical composition of steel, cast iron, and aluminum alloys.

ACHIEVEMENTS

- Conducting specialized engineering studies for large international entities.
- PCA accreditation (no. AB 490) and compliance with the PN-EN ISO/IEC 17025:2018-02 standard.

Innovative Concepts / R&D

Materials / Composite Materials

Other

Source: https://www.facebook.com/profile.php?id=61556446090959

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McBraida Polska Sp. z o.o.

30.30.Z Manufacture of air and spacecraft and related machinery

McBraida is a globally recognized technology partner in the aerospace sector, specializing in precision machining of jet engine components. The company possesses unique expertise in working with refractory and high-strength materials, which form the foundation of modern aircraft propulsion systems. Thanks to its advanced machinery and specialized testing facilities, the company delivers solutions critical to flight safety and efficiency.
McBraida stands out not only for its production capabilities but also for its expert engineering support during the design phase, optimizing manufacturing processes for cost and quality.

MAIN PRODUCTS:

- Precision machining of difficult materials (Inconel 718/625, titanium, stainless steel).
- Manufacturing of oil nozzles for engines.
- Conducting functional and flow tests (Full Flow Test).
- Advanced mechanical components for aircraft engines.

ACHIEVEMENTS

- Verified partner status for aircraft engine industry leaders: Rolls-Royce, GE, Pratt & Whitney, and Safran.
- Commitment to supplying all current Rolls-Royce aircraft engine applications.
- Maintaining strategic supplier status ("Trusted to Deliver") for over 18 consecutive months.
- Global reach for oil nozzle supplies to nearly every aircraft engine manufacturer in the world.

Aerostructures

Propulsion and power systems

Other

Source: https://www.mcbraida.com/

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MGGP Aero Sp. z o.o.

74.20.Z Photographic activities, in particular photographic services in the field of aerial photography

MGGP Aero is a Polish leader in the remote sensing and photogrammetry industry, specializing in the acquisition and processing of high-resolution image data from aircraft. The company implements comprehensive projects including laser scanning, aerial photography, and remote sensing analyses for a wide range of clients – from public administration to the energy and environmental protection sectors. Using state-of-the-art sensors and its own fleet of aircraft, the company delivers precise cartographic studies and advanced 3D city models. MGGP Aero focuses on innovation, developing proprietary mapping services and analytical tools that enable effective management of space and natural resources.

MAIN PRODUCTS:

- Aerial photography (vertical/oblique) and orthophotomaps.
- LiDAR laser scanning, terrain models, and 3D city meshes.
- Environmental remote sensing and tree canopy mapping.
- Geographic information systems (GIS) and mapping portals.
- Turnkey image data acquisition and analysis.

ACHIEVEMENTS

- Status as the largest company in the photogrammetry industry on the Polish and European markets.
- Multiple awards in the prestigious Forbes Diamonds and Business Gazelles rankings.
- Own, modern Research and Development Center in Jasionka.
- One of the largest private fleets of photogrammetric aircraft in Central Europe.
- Implementation of advanced research projects for the European Space Agency (ESA).

Other

Source: https://geoforum.pl/

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MSP Inntech Sp. z o.o.

71.12.Z Engineering activities and related technical consultancy

MSP is a Polish technology company with over 20 years of experience, one of the country's leaders in unmanned aerial systems (UAS). The company specializes in the comprehensive design, construction, and integration of advanced flying platforms, control systems, and specialized instrumentation for the aviation and defense sectors. MSP was the first entity in Poland to obtain certification for an unmanned aerial vehicle, confirming the highest engineering and safety standards. The company is a key supplier to the Polish Ministry of National Defense (MON) and a recognized partner to global corporations, providing innovative solutions in the areas of strike systems, air targets, and precision machining for civil aviation.

MAIN PRODUCTS:

- GIEZ loitering munitions and unmanned armed platforms.
- Nacre IEP unmanned test platform for Airbus.
- Poland's first certified unmanned aerial vehicle (UAV).
- Airborne targets for the Ministry of National Defense.
- Long-range jet strike systems.

ACHIEVEMENTS

- Large-volume deliveries of counter-drone systems (CUAS) for the Ukrainian Ministry of National Defense.
- Implementation of over 30 UAV projects over 20 years of market operation.
- Production of 90% of the components for the Trent 1000 engine (Boeing 787 Dreamliner).
- Four-time winner of the prestigious Defender award at the MSPO trade fair.
- ISO 9001, AQAP, WSK System certifications, and full license from the Ministry of Interior and Administration.

- Aerostructures
- Propulsion and power systems
- Aircraft Avionics, Systems and Equipments
- Unmanned Aerial Systems Technologies
- Integrated Design and Validation (methods and tools)
- Innovative Concepts / R&D

Source: https://uav.com.pl/

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SkyTech eLab Sp. z o.o.

72.19.Z Other research and experimental development on natural sciences and engineering

SkyTech e-Lab is a specialized engineering firm focused on developing breakthrough technologies for aviation and electric mobility.
The company combines expertise in the design of modern composite structures with advanced engineering for electric and hybrid drives.
The STeL team utilizes proprietary knowledge-aided design (KBE) methods, enabling the automation of complex engineering processes and the creation of ultra-light aircraft platforms. Thanks to its proficiency in advanced CAD/CAE systems and research tools, the company delivers innovative solutions in areas such as hydrogen fueling and unmanned systems, setting new standards in the design of eco-friendly aircraft.

MAIN PRODUCTS:

- Energy-efficient electric and hybrid drive systems.
- Hydrogen power systems and composite aircraft structures.
- Light aircraft, gliders, drones (UAVs), and mobile robots.

ACHIEVEMENTS

- Development of solar-powered Unmanned Aerial Vehicles (HAPS).
- Construction of autonomous High Altitude Long Endurance (HALE) high-altitude platforms.
- Implementation of proprietary KBE tools to optimize design processes.
- Implementation of advanced hydrogen fuel cell-based propulsion systems.

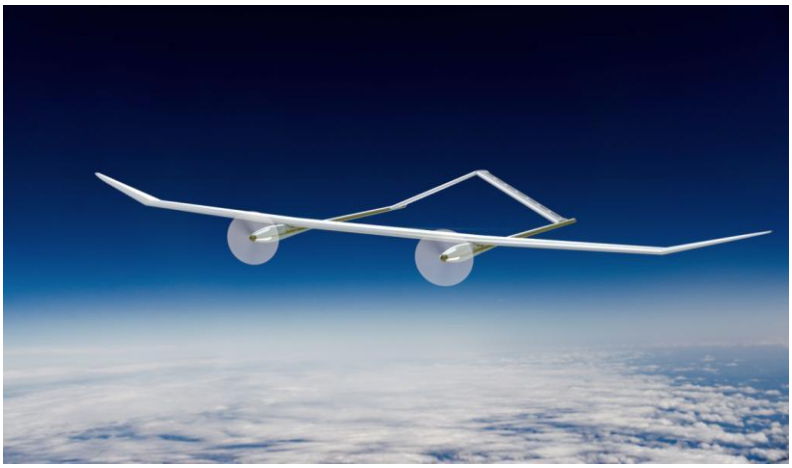
Aerostructures

Propulsion and power systems

Unmanned Aerial Systems Technologies

Digital Industry - Industry 4.0

Materials / Composite Materials



Source: https://skytechelab.com/

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Ultratech Sp. z o.o.

25.62.Z Mechanical working of metal elements

Ultratech is a renowned Polish supplier of components to the global aerospace industry, operating in the market for over two decades. The company specializes in precision mechanical machining and the assembly of advanced structures for civil and military aviation. Thanks to its modern machinery and in-house design capabilities, the company supplies critical landing gear, engine, and fuselage components to the largest global manufacturers. Ultratech combines manufacturing expertise with advanced quality control, performing non-destructive testing and precise CMM measurements, ensuring the highest safety standards required in the aerospace sector.

MAIN PRODUCTS:

- Structural components of aircraft, helicopters, and aircraft seat components.
- Precision landing gear components and aircraft engine blades.
- Specialty tooling.
- Measurements on coordinate measuring machines (CMMs).
- Non-destructive penetrant testing (NDT) of aerospace and aviation parts.

ACHIEVEMENTS

- Exclusive manufacturer of dozens of landing gear parts for Boeing 737 and 737 MAX aircraft.
- 18-year collaboration in the production of Black Hawk helicopter structures for Lockheed Martin.
- Strategic partnership with WSK-PZL Świdnik in the production of helicopter structures.
- 23 years of manufacturing blades and engine components for Pratt & Whitney Rzeszów.
- Participation in advanced research projects in the aviation and space sectors.

- Aerostructures
- Propulsion and power systems
- Aircraft Avionics, Systems and Equipments
- Integrated Design and Validation (methods and tools)
- Innovative Concepts / R&D
- MRO / Inspection

Source: https://ultratech.pl/

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WALDREX Sp. z o.o. Sp. K.

25.62.Z Mechanical working of metal elements

Waldrex Waldrex is a specialized engineering and manufacturing company that has been combining traditional craftsmanship with cutting-edge machining technologies for the aerospace sector for years. The company focuses on the precision manufacturing of aluminum, titanium, and steel components, as well as the design of complex technological tooling. Waldrex provides critical solutions not only for the aviation and space industries, but also for the automotive and household appliance industries. Thanks to its own non-destructive testing laboratory and advanced drilling and machining processes, the company ensures the highest product consistency and quality, confirmed by rigorous aviation certifications.

MAIN PRODUCTS:

- Stamping dies, blanking dies, injection molds, and vulcanization molds.
- Precision titanium and steel aircraft engine parts.
- Machining, measuring, and assembly fixtures, as well as wax mold dies.
- Specialized EDM and machining services.
- Fluorescence Inspection (FPI)

ACHIEVEMENTS

- AS9100 Rev. D accreditation for design and production in the aerospace and defense sector.
- NADCAP certification for non-destructive testing (NDT).
- Implemented and certified ISO 9001:2015 quality management system.
- Status as a trusted supplier of automotive and aerospace instrumentation.
- Process approvals compliant with rigorous CFPM and CFPS standards.

Airports

Other

Source: https://waldrex.pl/

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Wytwórnia konstrukcji kompozytowych Andrzej Papiorek

[Composite Structures Factory]

30.30.Z Manufacture of air and spacecraft and related machinery

The Andrzej Papiorek Composite Structures Factory is a renowned manufacturer specializing in advanced composite structures for light and sport aviation. The company possesses unique expertise in the construction of complete airframes, utilizing modern laminates that ensure low weight while maintaining the highest strength. The company is a key partner in the mass production of gliders and motor gliders, supplying finished aircraft and key structural components.

Thanks to its extensive experience in precision molding of aircraft structures, the company holds a significant position in the supply chain for the General Aviation segment.

MAIN PRODUCTS:

- Composite airframe structural components.
- Complete fuselages and supporting structures for light aircraft.
- Airfoils with high aerodynamic performance.
- Composite components for sports and recreational aviation.

ACHIEVEMENTS

- Production of complete airframes for the S-10, S-06, and S-12 series motor gliders.
- Production of structures for the Sky-Arrow and GP-10 light aircraft.
- Series construction of high-performance sport gliders.
- Development and production of innovative airfoils for the Q-001 aircraft.

Aerostructures

Unmanned Aerial Systems Technologies

Source: https://www.facebook.com/wkkpapiorek

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