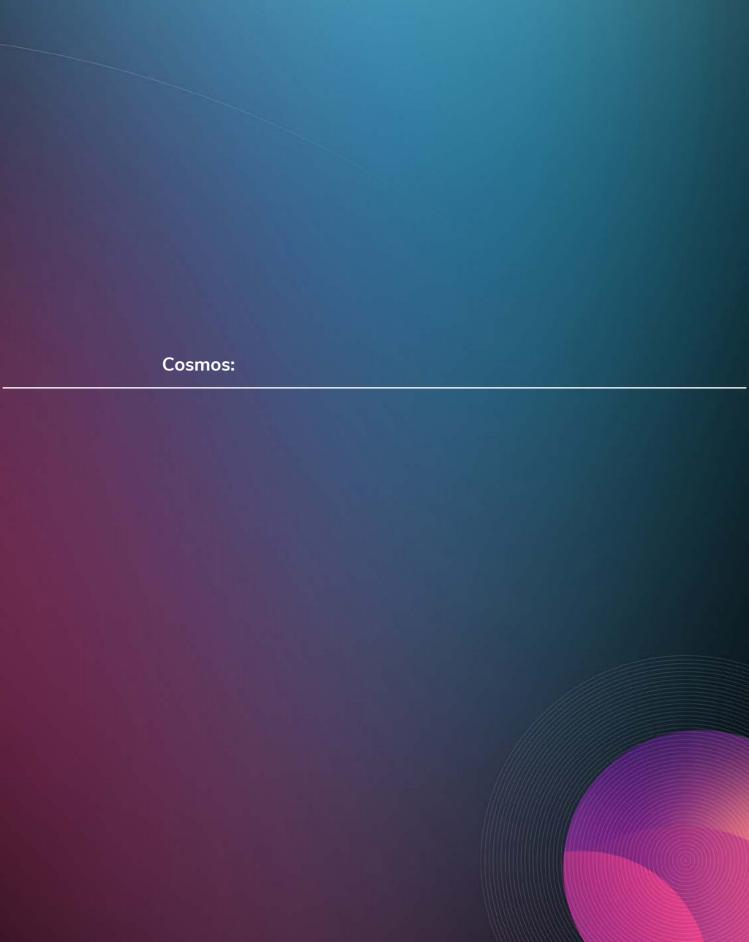
PPLSA

Polish Economic Mission to Australia

> ENTITY DIRECTORY 2023

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AlterGeo Holding

AlterGeo Holding is the parent entity of technological companies operating in the field of Aerospace and Geoinformation. The entity was established to internationalize advanced solutions developed on the Polish government administration and business market as well as R&D project.

In 2023, the offer consists of two main product groups:

- 1. Geospatial Information Systems consists of spatial, satellite data, and derived layers warehouses, geoportal tools for group work and information distribution as well as high-end information products based on Al or machine learning.
- 2. Remotely managed aircraft equipped with high-performance surveillance multisensors working together or separately: LIDAR scanners, hyperspectral scanners, RGB and NIR photogrammetric cameras, thermal cameras or oblique cameras. A unique feature of the aircraft is high mapping efficiency at low operating costs and high flight autonomy combined with remote control of on-board devices. Flights are performed on the basis of international aviation law for manned aircrafts.

The users of the offered solutions include: Military University of Technology, Polish Space Agency, Space Research Center of the Polish Academy of Sciences, Polish Investment and Trade Agency, Ministry of Entrepreneurship and Technology, Ministry of Climate and Environment, Ministry of Infrastructure, Ministry of Development Funds and Regional Policy, Ministry of Maritime Economy and Inland Navigation, National Support Centre for Agriculture, Head Office of Geodesy and Cartography, State Forests National Forest Holding, National Parks, European Space Agency, et al.

The private geoportals ongeo.pl and geoportal-krajowy.pl serve more than 10,000 individual customers of spatial information in Poland daily.

Contact information

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labaj@smallgis.pl



Blue Dot Solutions sp. z o.o.



The company offers services related to technological expertise and defining products using satellite data as well as information and operational services related to the space sector and the development of entrepreneurial and design activities at an early stage of development. The company implements projects based on satellite navigation (including fields of jamming, indoor positioning, etc.), Earth observation, integrated applications, as well as modern materials with a porous (net) structures and mechanics. In its projects the company uses the expertise of a extensive network of contacts in over 50 countries and the International Space University network. As part of the Space3ac accelerator mechanism, the company helped to obtain financing for R&D activities in the total amount of over PLN 23 million for over 100 small companies.

Main products and services:

- Casings, components produced from net structures (Secondary Structures, also Primary Structures) in Structures (N) within Satellite & Probes
- Design and verification methods for structures manufactured from novel materials (nanotube reinforced, foams, self-healing materials etc)
- Data analysis (User Operations, D), Ground Segment (IV)
- ▶ Casings, components produced from net structures (Other, d) in Mechanical, Optical and Magnets parts (H) in Satellite & Probes (II) segment

The most important achievements in the space sector:

- ▶ Project: "Development of a multifunctional housing for the needs of space and aviation electronics, with particular emphasis on the so-called power electronics and power sources", POIR.01.01.01-00-0581/17
- Project: "Fulfilling enhanced location accuracy in the mass-market through Initial Galileo Services", H2020 Project 776436, www.flamingognss.com
- ▶ Project: "GroundEye a technological platform for monitoring mobile elements of ground infrastructure at airports", RPPM.01.01.01-22-0099/16.

- Entity type: SME
- Main technological domains







Structures (TD 20)

^ç Mechanisms ≞ (TD 15)

Contact information

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Euro Weld



Skids, pipelines, scrubbers, vessels

EURO-WELD is a manufacturer, from blueprint to building, of pipelines, skid systems, pressure vessels, structures, tanks, scrubbers. Our products and services are in accordance with the following norms: NORSOK M-601, ASME IX, WUDT / UC / 2003, PED 97/23 / EC, AD 2000 Merkblatt HP 0 / HP 100 R, TRD 201, EN1090, while complying with the regulations and requirements of International Classification Societies. EURO-WELD owns 200 welding technologies (WPQR, WPS). The technologies are applicable for various materials e.g.titanium, aluminium, coopernickel alloys, duplex, super duplex, stainless steel, etc. We provide our clients with additional non-destructive testing services. EUROWELD is certified with ISO 9001:2015 and 3834-2:2007 and during implementation of ISO 14001 and 45001.

Partners for cooperation

Euro-weld wants to participate in the economic mission to Australia to meet potential business partners. The idea is to start building longterm relationships with australian companies, who search for partners and/or fabricators in austnitic & exotic steels for their sophisticated projects, deisgn, approved equipments. For example, we are already discussing (since a year) with JordProxa, australian company, who is executing projects worldwide. Recently they were awarded a project in Europe, where they need partners to build up almost 30 devices, with toal weight approx. 112,00 tonnes according to their design. The installation is planned for beg. od 2024, so there is enough time for prefabrication at Euro-weld's premises.

Contact information

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Jakusz SpaceTech sp. z o.o.



For several years, Jakusz SpaceTech has been a respected producer of ,green' propellant - HTP (hydrogen peroxide with a concentration of up to 98%) and has been conducting scientific research on it in cooperation with the European Space Agency (ESA). The company is also working on other rocket fuels such as DMAZ or ionic liquids.

The Jakusz SpaceTech research laboratory was established in 2015 on the basis of a team of chemical specialists and focused its activities on space technologies, mainly in the fields of propellant production and technological research projects. The team of specialists came from the Jakusz company, which was established in 1985 and is one of the leaders in security and defense systems.

Main products and services:

- Production and sale of HTP, DMAZ rocket fuel and ionic liquids and for re-entry systems.
- Performing chemical tests and analysis.
- Material compatibility tests for rocket fuels
- Hypergolic fuels testing.

The most important achievements in the space sector:

- "Development of a catalyst bed for the 1N thruster" ESA project
- ▶ "High Concentration Hydrogen Peroxide Safety Validation Testing" ESA project
- "Optimization of passivation parameters for different aluminum alloys" –
- "Hydrogen Peroxide Storability/Compatibility Verification" ESA project

- Entity type: SME
- Main technological domains



Propulsion (TD 19)



Materials and Manufacturing Processes (TD 24)

Contact information

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Contact person: Maciej Spigarski, **Business Development Manager** e-mail: ms@jakusz-spacetech.com, telephone: +48 509 342 646



Hire our software engineering team with silicon valley experience

Autumn8 reduces the financial and ecological burdens of artificial intelligence. Autumn8 offers a cloud agnostic platform that benchmarks and predicts the performance of Al models prior to server spin-up, and selects the optimal server and model configuration to train and deploy your workloads on.

Autumn8 is a product developed at RadCode.

RadCode is a venture building company that partners with founders and corporations to bring innovative software products to life. We leverage our experience in software engineering, product management, and venture capital to help founders achieve their goals. We focus on building fast, secure, and reliable software products and have a track record of working with some of the world's most innovative companies. We are passionate about using technology to solve complex problems.

Partners for cooperation

RadCode is always looking to expand our business network and find new partners to work with. We strive to build strong and lasting relationships with our partners and create mutually beneficial opportunities. Our team of experts is committed to finding the best fit for our business and helping our partners reach their goals. We are always open to discussing new ideas and exploring new possibilities.

Contact information

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Stair2Air

Automation and autonomy of vehicles in the heavy industry sector

The company's goal is the robotization of various types of vehicles. Thanks to the automation of platforms and vehicles, they are more accessible and safer. But if vehicle automatization is not enough, our company can provide autonomy solutions - move by using algorithms, without human participation.

We see a strong need for machines retrofitting kits in sectors such as airport ground handling, agriculture, or heavy industry, where investment in new machines requires very large financial outlays.

In almost every branch of the economy, insufficient numbers of employees and problems with finding new ones cause real losses for entrepreneurs. Thanks to our solutions, not only does the number of staff needed to perform the same job decrease. The result of our activities is also a reduction in the workload and stress for employees.

The company made the automation of mobile passenger stairs (airport) in accordance with the needs of the customer. The added electric drive made the whole operation safer and easier, allowing for a reduction of the operating crew from 3 to 2 persons. Moreover, The team has so far participated in the implementation of a 3-year R&D project of autonomous industrial mowers and prototypes of autonomous agricultural robots adapted to row crops and many others.

Which type of companies we are looking for as a business partners?

- the airport ground handling companies responsible for the airport's vehicles and all mobile platforms
- companies open for retrofitting vehicles in the sensors or automation layer in the heavy industry sector
- companies looking for autonomy solutions for special vehicles (also wanting to retrofit used machines in the autonomy layer)

Contact information

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SYDERAL Polska sp. z o.o.

- Entity type: SME
- Main technological domains



On-board Data Subsystems (TD 1)



Space System
Software (TD 2)



Mechanisms (TD 15)

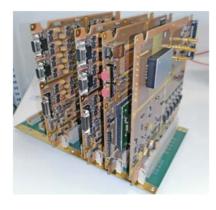


Optoelectronics (TD 17)

Contact information

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Contact person: Tadeusz Kocman e-mail: tadeusz.kocman@syderal.pl, telephone: +48 505 580 953





SYDERAL Polska Sp. z o.o. (Ltd.) specializes in providing solutions in the field of electronics and software for the space industry. The company was founded in 2016. It currently employs 20 highly qualified specialists and is based in the Gdańsk Science and Technology Park. The dynamic development of SYDERAL Polska was possible thanks to the involvement in the flight projects of the European Space Agency (ESA), including the EUCLID Antenna Pointing Mechanism Electronics and the FLORIS Instrument Control Unit projects. As part of a project co-financed by the National Centre for Research and Development (NCBiR), the company develops technologies for the satellite Quantum Key Distribution.

Company mission is to become one of the leaders for the development of the Polish space sector, as well as playing a key role in the European and global market in the areas related to quantum communication, control electronics and Flash mass memories. SYDERAL Polska is in the process of developing a local ecosystem (Tri-City area) that will enable comprehensive implementation of control electronics for space missions - including development, production and testing of satellite equipment.

Main products and services:

- ▶ Technologies used in electronic control system.
- On-board data processing systems data storage and processing.
- ▶ Technologies used in the production of optical equipment.

The most important achievements in the space sector:

- Selection within the Core Consortium by Airbus Defence & Space in the ARIEL mission - reponsible for delivery of the MGA PME unit.
- Nomination to the "Economic Award of the President of the Republic of Poland" in year 2021.
- Developments within Quantum Key Distribution technology domain completion of the engineering model in the SECSEQS project.



SpaceForest sp. z o.o.





SpaceForest develops and commercializes innovative solutions specializing in microwave techniques, artificial intelligence, advanced electronics and rocket technologies. The company provides a wide range of services in the field of design and prototyping of microwave equipment, precision mechanics and electronics, as well as launching experiments on board of internally developed experimental rockets.

SpaceForest implements internally developed technologies applied in aerospace systems, autonomous tracking and communication system for flying vehicles, or Filter Tuning Solutions for manual and automatic cavity filters tuning. Cooperation with ESA lead to developing low-noise high frequency generators and solid state power amplifiers used in the satellite communication systems

Main products and services:

- Antennas
- Communication
- RF equipment
- TX, RX, Repeaters and Transceivers
- Composite materials

The most important achievements in the space sector:

- ▶ ESA projects "Development and Qualification of Frequency Generators" (PLDRO) and "Development and Qualification of Dual Redundant Medium Power Master Signal Source" - completed at TRL7
- ▶ ESA project Solid State Power Amplifier for X-band completed at TRL5. TRL7 scheduled in 2022
- ▶ Project "Controllable and recoverable suborbital rocket with hybrid engine SF1000 based on eco-logical propellants- project co-financed by the European Regional Development Fund. Project duration: April 2018 – December 2023. The main objective of the project is to design and build first Polish suborbital rocket able to carry up to 50 kg of commercial payload to altitudes up to 150 km. Successful test flight at the altitude 10km and recovery.

- Entity type: SME
- Main technological domains



RF Subsystems, Payloads and Technologies (TD 6)



Electromagnetic Technologies and Techniques (TD 7)



Ground Station Systems and Networks (TD 12)



Propulsion (TD 19)



Materials and Manufacturing Processes (TD 24)

Contact information

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marcin.sarnowski@spaceforest.pl,
telephone: +48 797 542 446



Wasat



Satellite remote sensing

Wasat Sp. z o.o. provides satellite remote sensing services for clients in agriculture, environmental protection and archaeology. In addition, the company develops innovative tools for Earth Observation data processing and analysis.

Wasat owns and operates 3 online services:

- 1. Irriget.com delivers up-to-date information, based on analysis of satellite and meteorological data, on crop water requirements and water balance of each part of the field, hence it facilitates decisions on optimal irrigation.
- 2. FertiSat.com provides satellite-based maps of variable rate nitrogen fertilization and it offers a cost-effective monitoring of all types of crops.
- 3. Jupyteo.com is the Jupyter Notebooks cloud environment, which enables accessing satellite data and offers functions needed for their rapid processing, visualization and easy sharing.

Partners for cooperation

- Providers of high-resolution satellite data (optical, SAR, thermal)
- Business partners in the field of satellite-based services for precision agriculture and irrigation
- R&D partners in the domain of satellite remote sensing of soil and vegetation

Entity type: SME

Contact information

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ROYAL STAR

ROYAL STAR - The leader of reliable solutions in aviation. The company's business area includes 4 major brands:

- Aero: Aviation Training Center. Trainings for pilot's license and the appropriate ratings. Training for mechanics license.
 - Service: PART-145. Maintenance and repair of aircrafts and components.
- Jet: Air Operator Certificate. Business flights, transport of goods, charter flights, medical transport.
 - Manufacture: CNC production services.

Find out more: royalstaraero.pl



ROYAL-STAR PLUS

ROYAL-STAR PLUS together with ROYAL-STAR, provides innovative technological solutions for aviation and provides services for aviators, maintenance teams, managers, fleet owners and private pilots. Royal-Star Plus offers:

- training services (for pilots and mechanics),
- services for aviation and automotive industries,
- repair services of aviation components for the training and aviation industry.

Find out more: royalstaraero.pl



Company offers services in the field of automation systems applications for machines tools and devices, as well as comprehensive modernization.

Find out more: http://el-automatyka.pl/en/home/



PPUH MAM

The company main activities are: machining the medium components mainly for the aviation sector, equipment sales, tooling, providing measurements and calibration services.

Find out more: https://mam.rzeszow.pl/



Main activity of company is mechanical engineering but the big part of our business is machining difficult-to-machine materials such as nickel-base superalloys and titanium. Our speciality is the production of parts with restrictive quality requirements.

Find out more: https://salloytech.com/



ScaleWings AeroPro

Company develops revolutionary innovative aircraft, featuring groundbreaking technologies for the next level in aviation. With the production facility of 2,300m2 they have a complete industrial machine park to enable a high vertical integration of the manufacturing process: can produce the majority of the aircraft's parts in house.

Find out more: https://www.scalewings.com/



Manufacturing and machining aviation parts and off-the-shelf electric motors and generator products (YASA-750, YASA-400 and YASA-250).

Find out more: https://domin.co/aerospace/



Wolften

A dedicated global supplier and stocking distributor of nonferrous metal products. The company was established in 2008 and it keeps rapidly growing ever since. In our every-day work it focuses to maintain the highest level of professionalism and customer satisfaction by delivering on-time order fulfilment, quality control and a first-class expertise.

Find out more: https://wolften.pl/en/



Dreamline

Company provides trainings and e-learning courses for avitaion companies and individuals

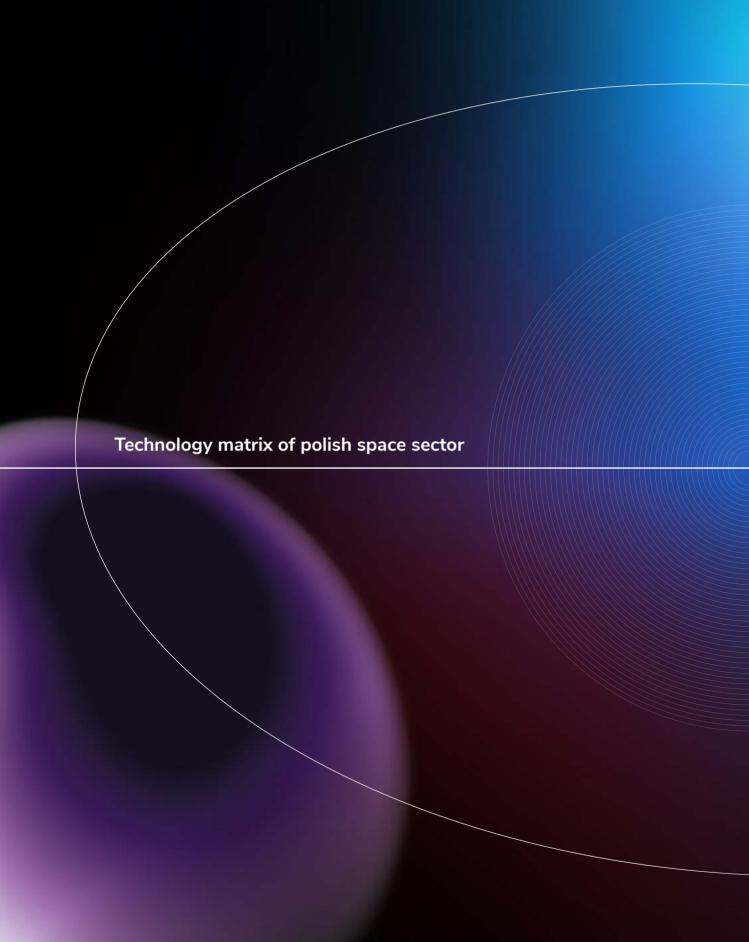
Find out more: https://technicalenglish.com/

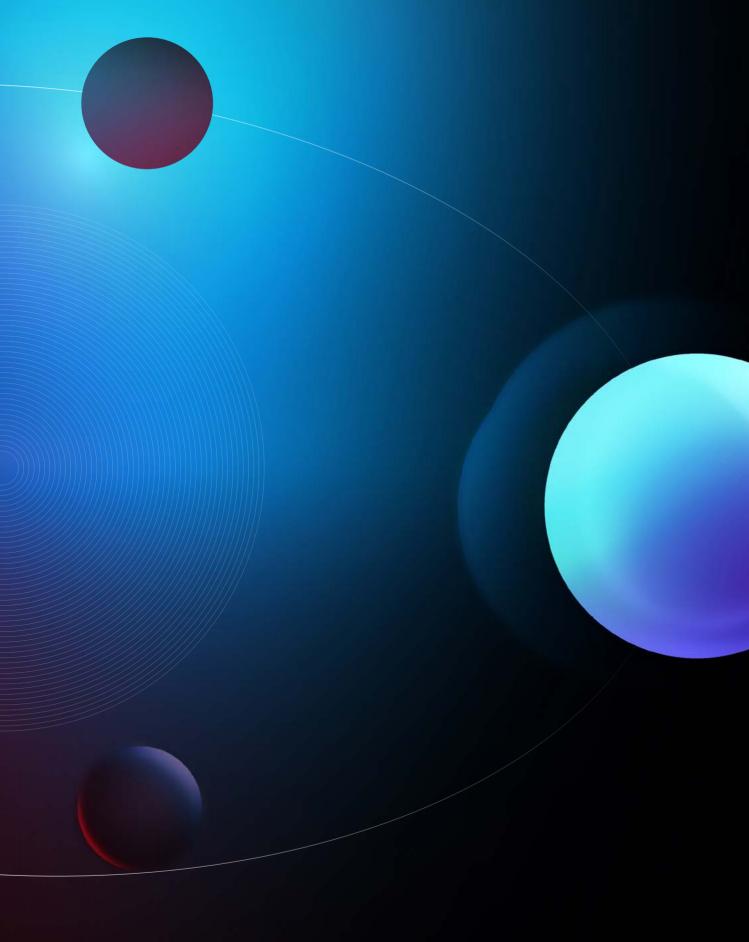


Advanced Technical Services

Dynamically growing Polish company which provides services in the field of technical support for production companies. Specializes in relocation of machinery and production lines, service of machinery and technical support within maintenance management.

Find out more: https://ats-service.pl/





	On-board Data Subsystems	Space System Software	Space Systems Electrical Power	Space Systems Environment and Effects	Space System Control	RF Subsystems, Payloads ar Technologies	Electromagnetic Technologi and Techniques	System Design & Verificatio	Mission Operation and Grou Data Systems	Flight Dynamics and GNSS	Space Debris	
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Absiskey Polska												
Asseco Poland						•			•			
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Astronika												
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Instytut Fizyki Jądrowej im. H. Niewodniczańskiego PAN				•								
Instytut Fizyki Plazmy i Laserowej Mikrosyntezy im. S. Kaliskiego Instytut Geodezji i Kartografii		•										
Instytut Łączności - Państwowy Instytut Badawczy						•	•					
Instytut Obserwatorium Astronomiczne, Wydział Fizyki, UAM										•	•	
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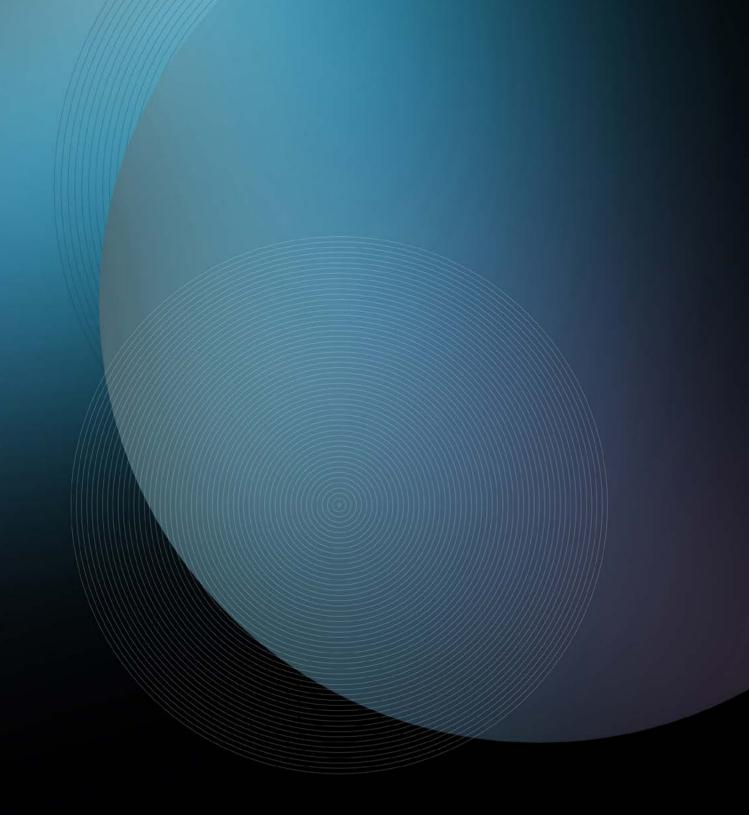
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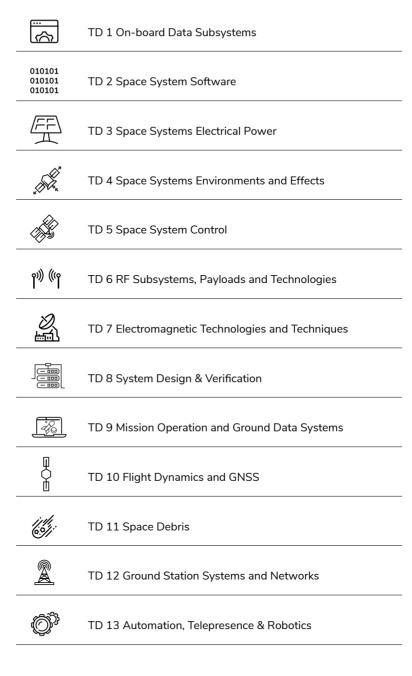
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TD 14 Life & Physical Sciences



TD 15 Mechanisms



TD 16 Optics



TD 17 Optoelectronics



TD 18 Fluid Dynamics



TD 19 Propulsion



TD 20 Structures



TD 21 Thermal



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



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



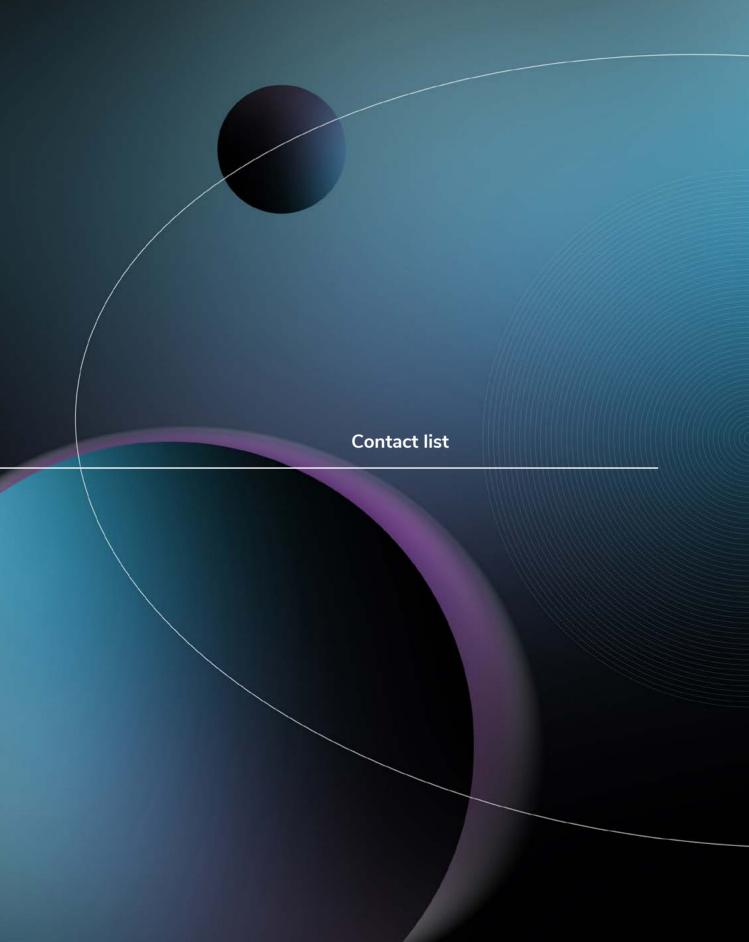
TD 24 Materials and Manufacturing Processes

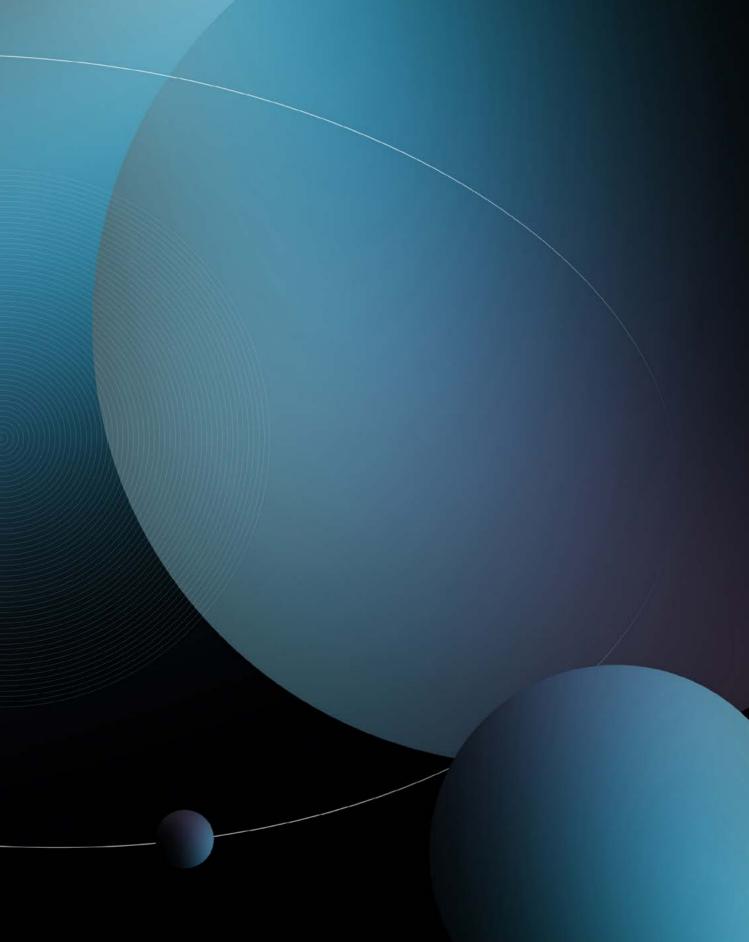


TD 25 Quality, Dependability and Safety



TD 26 Others





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