



4S SYMPOSIUM

16 - 20 May 2022 | Vilamoura | Portugal



EXHIBITOR

WEBSITE

AAC Clyde Space

<https://www.aac-clyde.space>

Alén Space

<https://alen.space>

AMOS

<https://www.amos.be>

Arcsec NV

<https://www.arcsec.space/web>

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<https://arralis.com>

Astos Solutions Gmbh

<http://www.astos.de/>

Axon' Cable

<http://astoncable.com/>

Bartington Instruments

<https://www.bartington.com/>

Berlin Space Technologies Gmbh

<https://www.berlin-space-tech.com/>

Bright Ascension

<https://brightascension.com/>

Comat

<https://comat.space/en/homepage/>

Cosine

<https://www.cosine.nl/>

CS Group

<https://www.csgroup.eu/en/>

CubeSpace

<https://www.cubespace.co.za/>

Deltatec

<https://www.deltatec.be/>

Dhv Technology

<https://dhvtechnology.com/>

D-Orbit

<https://www.dorbit.space/>

EnduroSat

<https://www.endurosat.com/>

Exolaunch

<https://www.exolaunch.com/>

Exotrail

<https://www.exotrail.com/>

Expleo

<https://expleo.com/global/en/>

Fondation Van Allen/CSUM

<https://fondationvanallen.edu.umontpellier.fr/en/home/>

Geosat

<https://geosat.space/>

Glenair

<https://www.glenair.com/>

Gomspace

<https://gomspace.com/home.aspx>

ISISPACE Group

<https://www.isispace.nl/>

Labsphere, Inc.

<https://www.labsphere.com/>

Latecoere

<https://www.latecoere.aero/en/>

Leaf Space Srl

<https://leaf.space/>

Leanspace

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Microchip	https://www.microchip.com/
NanoAvionics	https://nanoavionics.com/
Nautilus	https://www.spacenautilus.com/en/
Newspace Systems	https://www.newspacesystems.com/
NIMESIS Technology	https://nimesis.com/en/
NPC SPACEMIND	https://www.npcspacemind.com/
OHB SE	https://www.ohb.de/
QinetiQ Space	https://www.qinetiq.com/en/markets/space
Rakon	https://www.rakon.com/
Sab Launch Services S.r.l	https://www.sablaunchservices.com/
Satlantis Microsat SL	https://satlantis.com/
SERENUM, a.s.	https://www.serenumspace.com/
Simera Sense	https://simera-sense.com/
SkyLabs d.o.o	https://www.skylabs.si/
Sodern	https://sodern.com/en/
Space Flight Laboratory	https://www.utias-sfl.net/
Space Structures Gmbh	https://spacestructures.de/
Spacemanic	https://www.spacemanic.com/
Spaceoptix Gmbh	https://spaceoptix.de/
Steel Electronique	http://www.steel-electronique.fr/
Syrlinks	https://www.syrlinks.com/
Trisept Corporation	https://trisept.com/
Tyvak International srl	https://tyvak.eu/
Unibap	https://unibap.com/en/
U-space	https://www.sesarju.eu/U-space
VITO Remote Sensing	https://remotesensing.vito.be/
YEES	https://www.yeess.eu/



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45 Finnieston Street, Glasgow G3 8JU. United Kingdom.

AAC Clyde Space, a leading New Space company, specialises in small satellite technologies and services that enable businesses, governments, and educational organisations to access high-quality, timely data from space. This data has a vast range of applications, from weather forecasting to precision farming to environmental monitoring, and is essential to improving our quality of life on Earth.

Our growing capabilities bring together three divisions:

- Space Data as a Service – delivering data from space directly to customers
- Space missions – turnkey solutions that empower customers to streamline their space missions
- Space products and components – a full range of off-the-shelf and tailor-made subsystems, components, and sensors.

AAC Clyde Space aims to become a world leader in commercial small satellites and services from space, applying advances in its technology to tackle global challenges and improve our life on Earth.

Some of our clients include Horizon Technologies, Orbcomm, NSLComm, OHB Sweden, Intuitive Machines, Orbital Micro Systems, the United States Airforce Academy, UK Space Agency, European Space Agency and NASA.

AAC Clyde Space's main operations are located in Sweden, the United Kingdom, the Netherlands, the USA and South Africa, with partner networks in Japan and South Korea.

AAC Clyde Space's shares are traded on Nasdaq First North Premier Growth Market in Sweden. The share is also traded on the US OTCQX-market under the symbol ACCMF.



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Rúa das Pontes 6, Oficina 2.03, 36350 Nigrán. Pontevedra. Spain.

Alén Space offers services and solutions ranging from the design and manufacture to the operation of small satellites. All these activities are prepared by a highly trained team with more than 13 years of experience. During all this time, it has participated in missions with some of the world's leading space agencies and institutions.

Alén Space's main objective is to help clients to put its business ideas into orbit as quickly as possible. Its integral solutions, which are already 100% operational without waiting times, are related to several of the topics that will be dealt with at the 4S Symposium. Fields as 'Information Made in Space', 'Science', 'Telecom & Navigation' or 'Users & Ground Segment' are solved by Alén Space products and services.

Alén Space is committed to excellence. Its ready-to-fly solutions (e.g., ADS-B, AIS, IoT) have the flexibility to provide tailor-made solutions.



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Located in Belgium, AMOS has been designing and building high-performance optical and mechanical systems for more than 35 years. Its main achievements are a series of large-scale telescopes for professional astronomy, advanced space optics (mirrors, gratings, ...) for more than 40 Earth Observation or Deep Space missions (Sentinel-2, 3 & 5, Meteosat, Gaia, ...) , test equipment for space instruments and high-precision mechanical equipment. Combining decades of flight heritage with innovative space solutions,

AMOS has recently developed a range of advanced compact and lightweight multi- and hyperspectral imagers for the New Space market. This has been made possible thanks to a team of about 100 highly skilled and passionate engineers and researchers.



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Arcsec provides high-accuracy attitude determination and control systems for small satellites and CubeSats.

We sell full attitude determination and control systems and standalone star trackers and reaction wheels.



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Arralis offers market-leading solutions for communications and radar systems, specializing in the design and build of high-frequency Transceivers, RF and mm-wave Sub-Systems, MMICs and innovative Antennas. Much of our technology is unique to the market, including patented Antennas and exceptionally low-loss waveguide transitions.

Our highly skilled and experienced in-house engineering team can be relied upon to design and build innovative, high-frequency solutions to suit varied needs. Arralis has a wealth of product innovation and development expertise within the team with most of our engineers being PhD educated.

Arralis has high-tech design and build offices in the UK, US and Ireland. At our new site in Florida, USA we are building an ITAR compliant design and production facility.



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Based in Germany, Astos Solutions provides innovative software and hardware solutions that help to reduce cost and increase productivity with almost 30 years of experience.

The products and services are dedicated to any space mission like launcher ascent, constellations, rendezvous, electric propulsion orbit transfer, interplanetary flight, and landing. The software is dedicated to trajectory and vehicle design optimization, mission and system concept simulation, GNC/AOCS design and analysis, safety and risk analysis for space debris and launcher ascent, error budget engineering, and magnetic cleanliness. High performance visualization capabilities allow to compute drag and solar radiation perturbations for sail applications. A fluent workflow from model over processor to hardware in the loop simulation is embedded in validation facilities. The EGSE product family is extended by a reconfigurable AOCS-SCOE based on dSPACE components, GNSS simulator and a camera and LIDAR simulator for real-time testing of vision based navigation algorithms.



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As an expert in high tech applications, Axon' designs and manufactures interconnect solutions able to withstand the harsh space environment.

Lightweight, miniature, resistant to high temperatures and ATOX, these are the qualities of Axon's wires, cables, and cable assemblies. Axon' offers fast latching connectors and processes adapted to New Space Projects and heritage with the International Space Station, LEO, and GEO satellites, manned and unmanned flights, rocket launchers and thrusters.



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Bartington Instruments produces a range of magnetometers and Helmholtz coils for use in space applications.

We offer Helmholtz coil systems and magnetometers for ground testing of attitude control systems and magnetic hygiene. Our COTS flight magnetometers can be used to measure the Earth's magnetic field for mapping field fluctuations over the planet.

Our range also includes a sensor designed for CubeSat integration. These are suitable for Low Earth orbit (LEO) commercial, academic, and scientific missions, where cost or quantity are a consideration.



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Max-Planck-Str. 3, 12489 Berlin. Germany.

Berlin Space Technologies is a leading supplier of small satellites systems and services. BST builds on the 30-year heritage of small satellites in Berlin and our experienced team has already contributed to more than 75 satellite missions. We are vertically integrated and produce all key sub-systems in-house.

Located in Berlin, Germany the BST headquarters offer more than 1000sqm of the most modern labs and is well equipped to handle demanding missions from 30-150kg launch mass.

We understand ourselves as enabler for your application and have thus set the standards of best practice in capacity building for new space nations. Together with our partners from Azista Aerospace we are also running one of the first real factories for satellites and components. This makes us a sought-after partner for mega constellations.



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Bright Ascension Ltd. is an industry-leading space software technology provider, offering unique off-the-shelf software products and solutions for the delivery of space-based services, both on spacecraft and on the ground.

Our innovative modular approach allows our customers to significantly speed up mission development, simplify and automate operations, and results in lower total mission cost. Easily adaptable and tailored to the exact requirements of each unique mission, our pre-verified software components have been tried and tested in flight with over 30 satellites in orbit.



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6 Chemil De Vignalis, Flourens. France.

Comat offers a line of simple and robust products (reaction wheels, SADM, thrusters, deployable structures) for microsattellites (between 10kg and 150kg), resulting from a clever combination of market analysis, innovative design and industrially competitive achievements.

Our products are designed to maximize the operating times of the orbital segment. Architectures are defined with a target operating time of more than 8 years. All the technologies of our products are developed using the concept of building blocks. This concept allows us to quickly expand our product families. The selection and testing of the industrial components (COTS) that make up our building blocks are ensured thanks to our detailed knowledge of space environments and related physics.



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Cosine develops optical and in-situ measurement systems for space, air and ground use. These are used in scientific, industrial, medical, environmental, energy, agri/food, security, semiconductor and space applications, with customers ranging from small high-tech companies to the European Space Agency.

The cosine team consists of 50+ highly educated people who develop transparently in close collaboration with our customers. With our broad experience in different technological areas, we provide innovative, out-of-the-box measurement solutions. Technologies span the field of applied physics, with extensive experience in spectroscopy, laser systems and radiation imaging systems. We use our knowledge in physics, electronics, and software to solve problems in an innovative way.



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GROUP is a 2000 engineers company that designs, develops, deploys, maintains and operates critical systems for Space and Defense. Our systems, based on innovative solutions and products, guarantee the efficiency and security of our clients' operations and critical missions with extremely exacting requirements. Our engineers include system architects, third grade scientists and space applications & operations experts.

Based on our long-term experience in satellite operations, CS GROUP has developed GOSMIC Ground segment product line for small satellites and constellations, already operational and used on several Newspace missions.



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CubeSpace is an aerospace company that specializes in small satellite Attitude Determination and Control Systems (ADCS). We offer modular, low-power ADCS components with class-leading performance, as well as turn-key closed loop ADCS systems with unmatched heritage. Our products are designed to be compatible with almost all commercially available CubeSat suppliers.

We support each customer to evaluate their ADCS needs, choose the correct hardware solution, and tailor this solution to seamlessly integrate into their satellite. Our service is personalized, and we strive to help customers find the balance between powerful ADCS performance and reliable operations. Our company has delivered around 2000 ADCS components to 130 clients for approximately 180 satellites.



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LET'S DESIGN THE FUTURE

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Space became a strategic activity in 2005 with the development of flight models performing image acquisition and processing.

In the space segment, DELTATEC's role consists in designing data processing subsystems, with a focus on the electronics of cameras used in earth or sun observation satellites. Another major activity is the design of payload computers and on-board computers.

In the ground segment, the activity of DELTATEC is based on the design of specific test beds and in video processing applications, which are both derived from similar activities for aeronautics and industry markets.

Companies like ESA, CSL, Luxspace, Spacebel, and many others, regularly entrust their projects to DELTATEC



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Andalusia Technological Park C. Severo Ochoa 13, 29590 Malaga. Spain.

DHV Technology is a Spain based international company that designs and manufactures solar panels for space applications and other power subsystems for different platforms.

DHV Technology is committed with CubeSat and SmallSat approach to reduce the cost of space applications and to open the space to the research community and commercial initiatives. Due to this commitment, DHV Technology has been providing tailor-made solar arrays systems to different international companies at the same time the company has been developing different power subsystems implementing the most advanced technologies.

DHV Technology provides power to your space mission supplying Solar Arrays, Electrical Power Systems (EPS), Solar Array Drive Assembly (SADA), etc.



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D-Orbit is a market leader in the space logistics and transportation services industry with a track record of space-proven technologies and successful missions.

Founded in 2011, D-Orbit is the first company to address the logistics needs of the space market.

D-Orbit is a space infrastructure pioneer with offices in Italy, Portugal, the UK, and the US; its commitment to pursuing business models that are profitable, friendly for the environment, and socially beneficial, led to D-Orbit becoming the first certified B-Corp space company in the world.



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EnduroSat provides exceptional NanoSats and space services for business, exploration, and science teams. Its focus is on the development of next generation constellation and exploration programs.

The company's Shared Satellite Service enables streamlined space operations at a fraction of the current market cost. The service allows for the integration of multiple payloads and the implementation of diverse mission concepts on a single NanoSat. Its goal is to help drive innovation at the final frontier by providing easy access to space to visionary entrepreneurs, scientists, and technologists. EnduroSat's software-defined CubeSats undergo vigorous tests in a leading space qualification laboratory. The team exceeds 100 talented developers, engineers, and scientists, currently serving more than 130 clients worldwide.



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Exolaunch is a global leader in rideshare launch, deployment, in-space logistics, and integration services for the NewSpace industry. With a decade of flight heritage and over 200 satellites launched on 15 missions on launch vehicles around the world, Exolaunch has an industry insight it can leverage to develop one-stop-shop solutions tailored towards meeting customer needs and addressing market trends.

Exolaunch executes launch contracts for NewSpace leaders, the world's most innovative startups, research institutions, government organizations, and space agencies. Exolaunch manufactures lightweight and flight-proven separation systems to deliver integration and deployment services for small satellites. The company is also developing a line of environmentally friendly orbital transfer vehicles named Reliant for the satellite last-mile transportation, in-space logistics and space debris removal.



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End-to-end space mobility - Exotrail is a France-based space company which designs, develops, and operates end-to-end mobility solutions for an agile space.

Our mission is to enable small satellites to move in space, optimise their deployment, increase their service performance, and reduce space pollution. This will enable a new world of sustainable telecommunication, earth observation, space logistics and exploration. Exotrail's unique mobility offering allows our customers to:

- Accurately and collaboratively define mobility.

Operations Exotrail was incorporated in 2017 and has since raised over €20M from prestigious venture capital funds and public grants. We have customers across the globe including the US, Europe and Asia.



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Expleo is a global engineering, technology, and consulting service provider that partners with leading organisations to guide them through their business transformation, helping them achieve operational excellence and future-proof their businesses.

Expleo benefits from more than 40 years of experience developing complex products, optimising manufacturing processes, and ensuring the quality of information systems. Leveraging its deep sector knowledge and wide-ranging expertise in fields including AI engineering, digitalisation, hyper-automation, cybersecurity and data science, the group's mission is to fast-track innovation through each step of the value chain. Expleo boasts an extensive global footprint, powered by 15,000 highly skilled experts delivering value in 30 countries.



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Since 2006, the Foundation Van Allen/CSUM has been developing nanosatellites by involving students during their internships and their study projects. Supervision is provided by CSUM engineers, academics, and industrials.

Its activities are centered upon nano-satellites platforms and systems. Within its own 1U and 3U platforms, the Space Center offers the possibility for end users to design complete missions, embark payloads to perform technological validation in orbit.

The CSUM offers turnkey solutions from feasibility study to satellite operation. For collaborative projects, with other CSUs, it conducts upstream studies on 6U and 12U projects.

The CSUM has dedicated equipment: Concurrent design Facility, Mission control centre, Ground Stations (S-Band and UHF), Clean room, Thermal vacuum chamber (TVAC).



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Evora, Portugal and Valladolid. Spain.

GEOSAT is a global Earth Observation company delivering very-high resolution and wide swath imagery complemented with analytics targeted at specific vertical markets in a great variety of fields and applications.

GEOSAT is currently leading the development of its future constellation, oriented to frequent revisit and increased resolution. Earth Observation company providing imagery and services from both GEOSAT and partner satellites.



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Connectors, Cables, Composite Accessories, Braid and Tools.

Glenair manufactures a broad range of high-performance cables and components for space – from our innovative line of non-pyrotechnic HDRMs to high-reliability assisted separation force connectors to Micro/Nano types, and miniature circular connectors. Our composite AmberStrand and ArmorLite EMI Cable Braid has revolutionized weight saving efforts in a variety of launch and satellite applications. High speed signal and fiber connectors, filter connectors and Opto Electronic Media conversion.

Outstanding engineering support for all aspects of the design and supply of all components of the wiring system makes Glenair the Go-To Company for all your needs.



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GomSpace is a globally leading manufacturer and supplier of CubeSats & small satellite solutions for customers in the academic, government and commercial markets.

With 15 years of experience in the market and a track record of multiple successful missions accomplished, we have developed profound knowledge and competencies within systems integration, cubesat platforms, advanced miniaturized radio technology and satellite operations.

In 2016, GomSpace delivered the first ESA-led CubeSat mission, GOMX-3, developed fully under the framework of the ECSS standards based on ESA's tailoring hereof for nanosatellite projects. Altogether, GomSpace supports our customers from the design and manufacturing of their spacecrafts to mission analysis and operations from our own satellite operations platform



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ISISPACE is one of the leading companies in the small satellite market, specialized in realizing innovative turn-key small satellite missions including launch and operations for in-orbit delivery.

Founded in 2006, the company operates globally and serves customers worldwide in accomplishing their space missions and applications.

Our main offices are in The Netherlands, while we also have an office in South Africa.



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Labsphere, Inc. is headquartered in North Sutton, New Hampshire, US with a satellite facility in China and a global network of distribution partners. Founded in 1979, it is part of the Halma group of companies. Labsphere is the parent company for the FLARE Vicarious Calibration Network: www.flare-network.com.

Labsphere also specializes in the design and manufacture of high-end light measurement solutions for the LED/SSL lighting industry, uniform sources and products for remote sensing and imager/consumer camera calibration, diffuse optical coatings and materials including Spectralon®, Spectrafect® and Permafect®, instrumentation and reflectance standards for spectroscopy applications, and software for a variety of photometry applications.



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Latécoère's Interconnection Systems branch specialises in the customised design, industrialisation and production of wiring systems, avionics racks and test benches for the aeronautics, defence and space sectors. Some of these products are designed to withstand extreme environmental conditions. In addition of electrical wiring systems, Latécoère is able to design and manufacture Multi Layer Insulation (MLI) for space applications.

As a new core business, a production line has been developed to serial manufacturing of CubeSat for telecom, science and observation applications. The branch has initiated several partnerships with recognised industrial actors and Universities, like the Space Centre of Montpellier University. The branch also offers a wide range of embedded video systems for surveillance applications.



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Leaf Space operates a fully owned, globally distributed network of ground stations, empowering SmallSat operators to seamlessly communicate with their satellites in the most flexible way. We enable TT&C and payload transmissions via a simple user interface, a proprietary autonomous scheduling software, and network global coverage. Founded in 2014, Leaf Space currently supports more than 60 SmallSats in LEO – we'd love your spacecraft to be the next!

Our unique concept is focused on creating satellite telecommunications as-a-service, to assist clients with their satellite operations by managing and procuring the entire ground segment system through a complete

set of services, including timeshared access to ground, customize telecommunication solutions, ground station procurement, consultancy, and backup services.



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Leanspace is a European space startup founded by a team of international experts in 2020. Leanspace provides all the building blocks of ground software, enabling space organizations to easily develop tailored software systems to operate their missions, fully integrated, and drastically faster and cheaper.

In the Leanspace Cloud, you will find the generic 80% of all ground software functions. With them, you can easily build all your systems in-house by only developing the 20% on top, which is what you really need customized for your mission. Our modular APIs allow you to simply pick and choose the ones you require to develop powerful applications, and simply add your desired customizations, such as the protocol, desired user interface or automated workflows.



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Lens R&D is a Dutch SME specialized in high reliability Sensors for space applications.

Based on proprietary four quadrant photodiodes that have been radiation tested up to 8E14 1MeV electrons (19.2Mrad TID and 25E9 MeV/g TNID equivalent) and a 0.65mm Sapphire membrane, the sensors are radiation tolerant enough to survive any known mission.

The BiSon64-ET Sensors have been tested over a very wide temperature range and can be obtained with or without baffle. The MAUS is the only radiation hardened CubeSat Sensor known to exist and with less than 5mm building height ideally suited for the smallest high reliability satellites.



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Meisei is the world's only manufacturer of comprehensive environmental measurement systems.

The core technologies of Meisei, "Technology to measure" and "Technology to communicate", are applied to a various range of products from underwater to outer space, including measuring instruments designed for ground use such as water management and seismic meters, various sondes to be used in the stratosphere, and observation equipment to be installed in satellites.

Meisei Electric has developed and manufactured more than 3,000 space-related instruments since 1950's. Meisei Electric can provide all kinds of satellite components, such as "Mission Equipment" and "Bus Components". We are developing CubeSat, Nano Satellites, and Micro Satellites as well.



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MICROCHIP

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2355 West Chandler Blvd, Chandler, Arizona. USA.

For decades, Microchip has provided one of the industry's most comprehensive space product portfolios of radiation-hardened and radiation-tolerant solutions that include high-performance MCUs, MPUs, FPGAs, memories, communication interfaces, frequency, and timing solutions, mixed-signal ICs, custom power supplies, diodes, transistors, and RF components.

With product development activities and a qualified supply chain in Europe, Microchip is a key contributor to the European space ecosystem, delivering European and ESCC-qualified solutions.



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NanoAvionics is a smallsat bus manufacturer and mission integrator based in four locations across the USA, UK and Lithuania.

The company's efforts focus on enabling critical satellite functions and optimising their hardware, launch and satellite operation costs by providing end-to-end small satellite solutions - ranging from single missions to constellations. NanoAvionics is a smallsat bus manufacturer and mission integrator based in four locations across the USA, UK and Lithuania. The company's efforts focus on enabling critical satellite functions and optimising their hardware, launch and satellite operation costs by providing end-to-end small satellite solutions - ranging from single missions to constellations.



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Nautilus is the first European private company able to supply mission analysis and Flight Dynamics (Orbit determination and Orbit Control) full package services for deep space missions realized with CubeSats and SmallSats. Nautilus aims at applying the Small Satellites philosophy to the Operational Ground Segment, offering cost-efficient and tailored flight dynamics services to public and private customers.

Nautilus – Navigation in Space is an Italian SME built upon decades of experience in the space sector of two World-level research groups, one from the University of Bologna (Radioscience and Planetary Exploration Lab and the Microsatellites and Space Microsystems Lab) and the other from the Polytechnic of Milan (Deep-space Astrodynamics Research & Technology - DART).



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NewSpace Systems (NSS) is an advanced manufacturer of robust spacecraft components and subsystems with branches in South Africa, the United Kingdom, the United States, and New Zealand.

Particularly strong in Attitude Determination and Control Solutions, the NSS team has more than 30 years of experience in the Space industry; and are currently supporting more than 30 recurrent satellite platforms and 75 prime contractors across 27 countries. Whether offering clients access to flight proven off-the-shelf ADCS products or, working closely with clients to develop custom solutions, the NSS team understands that each mission is unique and strives to enable the mission success of our partners through close collaboration. Focused on delivering high-quality solutions and services, manufacturing is done in our state-of-the-art facilities which comprise of ISO 14644-1 certified cleanrooms and ESA certified technicians who work according to the rigorous ECSS standards.



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Nimesis Technology is an expert in shape memory alloys. This advanced technology is at the heart of its space actuators.

Light and compact, these products offer high performance, adapting from the smallest to the largest satellites. Through its modern industrial park and its competent teams, Nimesis Technology is constantly innovating to meet the high requirements of the space industry.



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NPC SPACEMIND operates in the New Space Economy focusing on outstanding flexibility and amazingly short lead time, offering:

- Complete CubeSat platforms from 1U to 16U, tailored on user payload requirements
- High performance CubeSat Deployers
- End to end service, from mission requirements to in-orbit operations, with a lean and customer oriented approach
- ARTICA Deorbiting System: low volume and low mass, stand-alone solution suitable for CubeSats
- CubeSat Hardware: a portfolio of subsystems based on hands-on experience on several CubeSat missions
- High velocity and accuracy ground tracking solutions (SSA and SST applications) and in-orbit objects tracking service.



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OHB SE is one of the leading independent forces in the European space industry and the German space company. With 3,000 highly qualified employees and 14 locations in 10 countries, the OHB Group is excellently positioned to face international competition and has made a name for itself as a reliable partner for government institutions and private companies.

OHB SE's activities are spread across three business units: Space Systems, Aerospace and Digital. While the Space Systems segment develops and realises satellite systems and space missions, the Aerospace segment is a major supplier to the European aerospace industry. Launch services, satellite operations and the development of IT applications based on satellite data are combined in the third and newest business unit, Digital. We.Create.Space.



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With an experience of more than 100 years in orbit, QinetiQ's space team enables the most demanding space missions. Whether it's extending the capabilities and possibilities of human space exploration, improving the performance and potential of satellite technology, or the development of increasingly sophisticated systems and space instruments, QinetiQ is a trusted partner for designing and delivering mission success.

From our sites in Belgium and UK, we deliver entire satellites and major satellite equipment, including on-board computers and platforms. The PROBA remote sensing satellites, with now more than 40 years in orbit without failure, have been fully designed and built at our facilities.

We are the prime contractor for the development of the International Berthing and Docking Mechanism (IBDM), the European androgynous low impact solution for effective and reliable docking and berthing of both large and small spacecraft. We also support long-time crewed missions with our Life Support projects, which look into providing food, oxygen, and fuel to space travellers. We are a major contributor to the infrastructure of the International Space Station.



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RAKON designs and manufactures equipment like GNSS receivers, communication equipment, telecom payloads and different Frequency Control Products like oscillators and quartz filters for the Commercial/New Space market.



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SAB Launch Services S.r.l. (SAB-LS) is a company part of SAB group offering launch services on European Launchers for all kind of Small Satellites. SAB-LS offers “end to end” services including launch procurement, integration activities of the satellite on the launch vehicle structure, pre and post launch support and full insurance at very competitive prices.

The company operates from its headquarters of Benevento (Italy), while payload integration activities in Europe are carried out in the SAB facility in Brno (The Czech Republic). Final Integration and Pre-Flight Operations are performed in the European Space Port in French Guiana.



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SATLANTIS is a Spanish-American technological SME with Very High-Resolution Earth & Universe Observation capabilities that develops customized, reliable, and innovative satellite solutions that fully meet customers' demands.

With key partners, SATLANTIS provides user-driven End-to-End solutions by controlling the High and Very High-Resolution optical channels embarked in agile small sensor buses, operated in intelligent missions that generate unique customer proprietary data for Earth Observation missions, for applications ranging from defence and security, energy, environment, to agriculture.

SATLANTIS' innovative camera technology has been developed during the last 10 years, the iSIM-170 model validated onboard the ISS in 2020 with a first mission with JAXA and the iSIM-90 model in a second mission, launched in December 2021 for the US DoD & NASA.



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SERENUM SPACE is a CubeSat component manufacturer, integrator, and service provider based in the Czech Republic. It is a commercially oriented subsidiary of Czech Aerospace Research Center, giving us the benefit of years of research in Space and Aviation industries and allowing us to bring premium value to academic, government, and commercial customers.

The Czech Aerospace Research Center (VZLU) vision is to become an internationally respected research and development center and national technological leader in the aerospace industry. VZLU will celebrate its 100th anniversary in 2022 and employs over 200 experts, building knowledge and solutions in the field of aeronautical and space technologies, thus contributing to the expansion of knowledge and competitiveness in the aerospace industry.



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SIMERA SENSE

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At Simera Sense we focus on making Earth Observation effortless and accessible, allowing everyone to understand better the earth's past, present, and future.

Our goal is to help Earth Observation mission providers to eliminate development risks, focus on their strengths and reduce time to market. To that end, Simera Sense produces leading optical payload and Cubesat imager solutions with the highest performance in the most compact form factor. Furthermore, we develop these payloads more cost-effectively than any other company using lean procedures while maintaining quality and performance.



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SkyLabs is a space-technology oriented company providing miniaturized satellite platforms, EGSE and innovative approach to space engineering. SkyLabs is providing high-tech solutions and services for the most demanding aerospace and terrestrial applications.

PRODUCTS AND SERVICES OFFERED

- Miniaturised satellite platforms with complete EGSE represent comprehensive turn-key solutions for micro and small-scale satellites in constellation missions.
- Semiconductors design expertise is leveraged in innovative radiation protection techniques, ICs and radiation sensors.



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Sodern is the world leader in the star tracker market and contributes to the transformation of the worldwide space market by offering a flagship product: Auriga, the most robust star tracker for small satellites! It has been selected by OneWeb and 20 additional customers for its high performances and more than 800 units are already flying.



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The Space Flight Laboratory (SFL) builds smaller satellites for bigger return at low cost.

SFL is Canada's most prolific satellite builder and exporter of satellites internationally. Small satellites built by SFL consistently push the performance envelope and disrupt the traditional cost paradigm. Satellites are built with advanced power systems, stringent attitude control and high-volume data capacity that are striking relative to the budget. SFL arranges launches globally and maintains a mission control center accessing ground stations worldwide. SFL's mandate is to lower the entry barrier for organizations around the world to meet their needs in space while requiring modest investment. Commercial business models are sensitive to cost and SFL solutions allow businesses to close financial models for new satellite services. The pioneering and barrier breaking work of SFL is a key enabler to tomorrow's cost aggressive satellites and constellations.



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Space Structures GmbH provides turnkey structures solutions for all space applications in any material or manufacturing process.

Our know-how in designing, simulating, and testing structures is also available as a service. For bolted joints design and verification, we offer the ESA evaluated software SpaceBolt.



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Spacemanic is a turnkey nanosatellite solutions provider and CubeSat components manufacturer from Slovakia. The company was founded in 2014 as a spin-off company from the Slovak Organisation for Space Activities (SOSA), which had successfully designed, developed, launched, and operated skCUBE. The company is focusing on the design, development, and testing of fundamental small satellite components based on the plug&play methodology.

Spacemanic's main objective is to shorten the time needed for nanosatellite missions to move from the drawing board to space. With a proprietary line of subsystems, we are also lowering the cost of launching the customer's payload, whole satellite, or even a fleet of satellites, making space accessible to scientific institutions, universities, and private customers with various budget sizes.



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SPACEOPTIX GmbH is a Fraunhofer IOF spin-off and develops, manufactures, integrates and tests high precision metal optics and mirror systems for applications in space, astronomy, science, and industry.

We offer metal mirror components and systems for prototyping and in industrial series production for observation and optical communication applications in space and on ground.



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Firmly positioned in the field of high technology, STEEL ELECTRONIQUE Company carries the bulk of its activities in the field of space electronics (100% of its 6M€ turnover), where its main customers are institutional agencies as prestigious as CNES, ONERA, CEA, CNRS or Large-Scale Integrators, such as Airbus Defence and Space and Thales Alenia Space.

STEEL Electronique is a recognized supplier for the following types of space flight units:

- On Board Computers for small satellites Platforms or Payloads.
- Payload Data Handling (Mass Memory, Formatting Units, Cyphering, Authentication).
- Instrument and Interface Control Units.
- DC/DC converters.
- Front end electronics.
- High Performance and Versatile Single Board Computers for Nanosatellites / Cubesat.
- Interface boards.



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Syrlinks designs and manufactures high-end, cost-effective radio-communication and geolocation sub-systems for Space, Defense, and Safety. Syrlinks' products combine innovative technology and reliability to offer both advanced performances and easy integration.

Our portfolio is one of the largest on the market, offering radios for medium-sized satellite (up to 10 years life-time) to Nano/Cube Satellites.

- HighDataRate transmitters, transceivers (TT&C/ISL) in different frequency bands (L, S, X, Ka), and several quality levels (Newspace to ESA CLASS 2 (similar to NASA Level I)).
- GNSS SDR Receiver, based on multi-frequencies / multi-platform.
- SDR Payload (wide band receiver).



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TriSept Corporation provides effective, and innovative solutions that enable customer success. Founded in 1994, TriSept is a small business that is a seasoned technical and programmatic service provider to government and commercial industries.

The TriSept family hand-selects both pioneers and the best new talent from the aerospace, software, and information assurance sectors with competencies necessary to successfully plan and execute the full product lifecycle. TriSept is continually recognized by its customers and teammates for the integrity of their personnel, the level of expertise that they bring to their programs, and excellence in the end-products. TriSept's core competencies include launch integration and brokering, program/mission management, systems engineering, software architecture and development, as well as program information assurance. The company also has unique experience in integrating multiple small satellites and rideshare payloads onto various launch vehicles. TriSept is an agile and efficient solution provider, working as one team with its customers to succeed.



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Tyvak is a leading supplier of nano and micro satellite platforms for advanced space missions in LEO, GEO and Beyond Earth Orbit. Working with NASA, ESA, the defence sector, and commercial clients, Tyvak delivers an end-to-end solution covering design, manufacture, AI&T, launch brokering, and mission control.

Currently engaged in missions to the moon, in LEO, and for asteroid exploration, Tyvak prides itself on its assured and professional delivery of your mission. Tyvak International SRL is one of the operating groups and the first international branch of Terran Orbital Corporation. Terran Orbital teams are leading innovators and providers of nanosatellites and microsatellite space vehicle products that target advanced state-of-the-art capabilities for government and commercial customers to support operationally and scientifically relevant missions. Tyvak International represents the most advanced and vertical integrated offer in the market of small space vehicle products and services.



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Unibap is a company with expertise in areas as artificial intelligence, image analysis, space systems and industrial automation. Unibap provides the SpaceCloud® cloud computing ecosystem to empower space systems with new and enhanced capabilities. SpaceCloud offers on-orbit timely data generation, storage, and analytics for small to large satellites, deep space exploration, and space robotics.

Unibap offers state-of-the-art, radiation tolerant, high-performance heterogeneous payload data processing solutions in the iX5-family (flight heritage) and the new iX10-family.



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U-Space designs and builds next generation nanosatellites for constellation operators.

We offer our customers a turnkey service based on next-generation nanosatellites, to enable operators to remove a complex barrier to entry and facilitate the process of designing and producing dedicated constellations.

U-Space is developing a range of 3U, 6U, 12U, and 16U nanosatellite products that address the private constellation market. These products are intended to fulfil an operational service for commercial applications.



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VITO is an independent, research, technology & service leader in cleantech and sustainable development. Our goal? To accelerate the transition to a sustainable world, consulting & supporting public organizations, researchers & industry.

VITO Remote Sensing has a long-term expertise in the development of Earth observation instruments, technologies and services. VITO plays a primary role in collecting and processing Earth observation data, among other things, into objective and useful information and insights, that are actively made available and promoted.

Our unit counts about 100 developers & scientists with expertise in a wide range of remote sensing instruments, image processing, image quality, AI, end-to-end EO solutions, geomatics, ...



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YEES is the syndicate to facilitate and accelerate the New Space dynamic in Europe.

It is an association founded in 2021 and registered in Brussels, Belgium, at the Ministry of Justice as an international non-profit association, subject to and in accordance with the Belgian law of 27 June 1921 concerning non-profit making associations, international non-profit making associations and foundations.

YEES wants to work with and for Europe and support collectively the competitiveness of Europe in space.