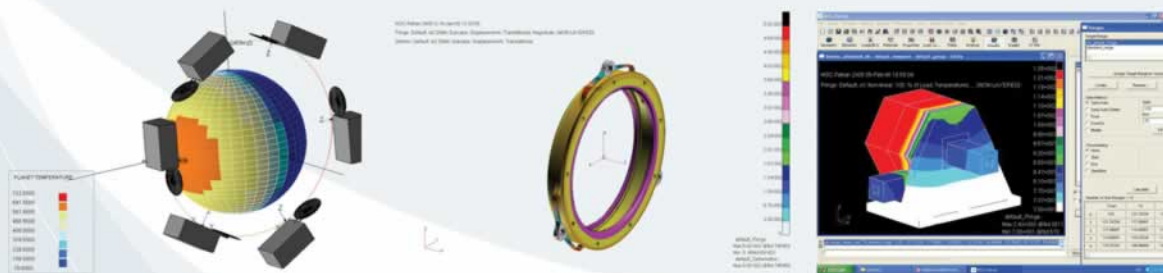




thermal services

- Thermal architecture
 - Design and optimization
 - Packaging and thermal management
 - Conversion of thermal models
 - Definition of requirements and interfaces
 - Test procedures, support and correlation
 - Support in software development
 - Innovative cryogenic and insulation systems
 - ESARAD, ESATAN, THERMICA, NASTRAN, GEANT4, CFX, FLUENT
-
- Radiation analysis
 - Fluid dynamics modelling





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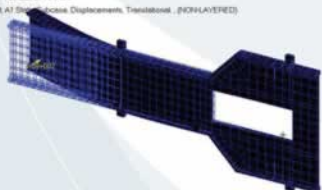
structural services

- FEM analysis
- Thermo-elastic analysis
- Design and optimization
- Trade-off studies
- Modelling of metals and composites
- Experimental and numerical tribology
- Multi-body dynamics
- PATRAN & NASTRAN, ANSYS, ABAQUS, SINAS IV, ESATAN TMG

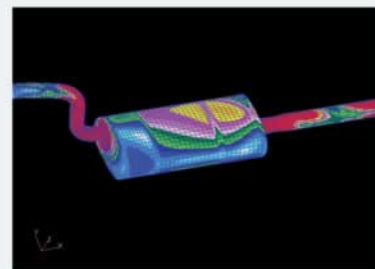
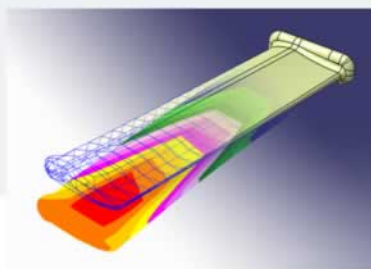
design services

- Mechanical design solutions
- Translation of CAD models
- Assembly procedures
- Low-cost rapid prototyping
- CATIA, PRO ENGINEER, AUTO CAD, SOLIDWORKS, IDEAS

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digital control services

- Signal and image processing
- Proportional, Integral and Derivative control
- Kalman filter prediction
- Kanayama/Yang tracking controllers

embedded systems services

- Distributed control architectures
- Microcontrollers and PLC programming
- Real-time systems
- Process automation and control
- Remote monitoring systems
- Communication buses: CAN-bus, LIN-bus, Profibus, Ethernet, RS2 32, SPI, I2C
- Programming of logic circuits using VHDL language (namely CPLD and FPGA)
- Robotics





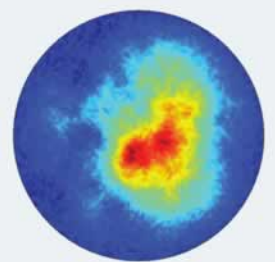
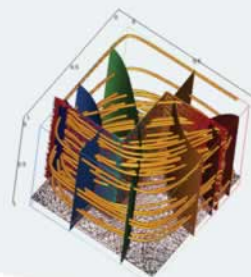
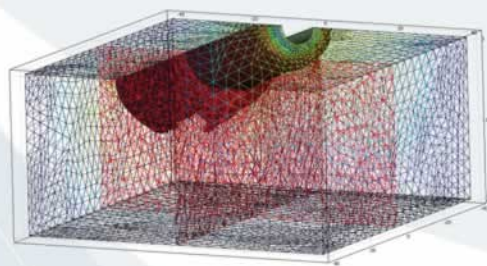
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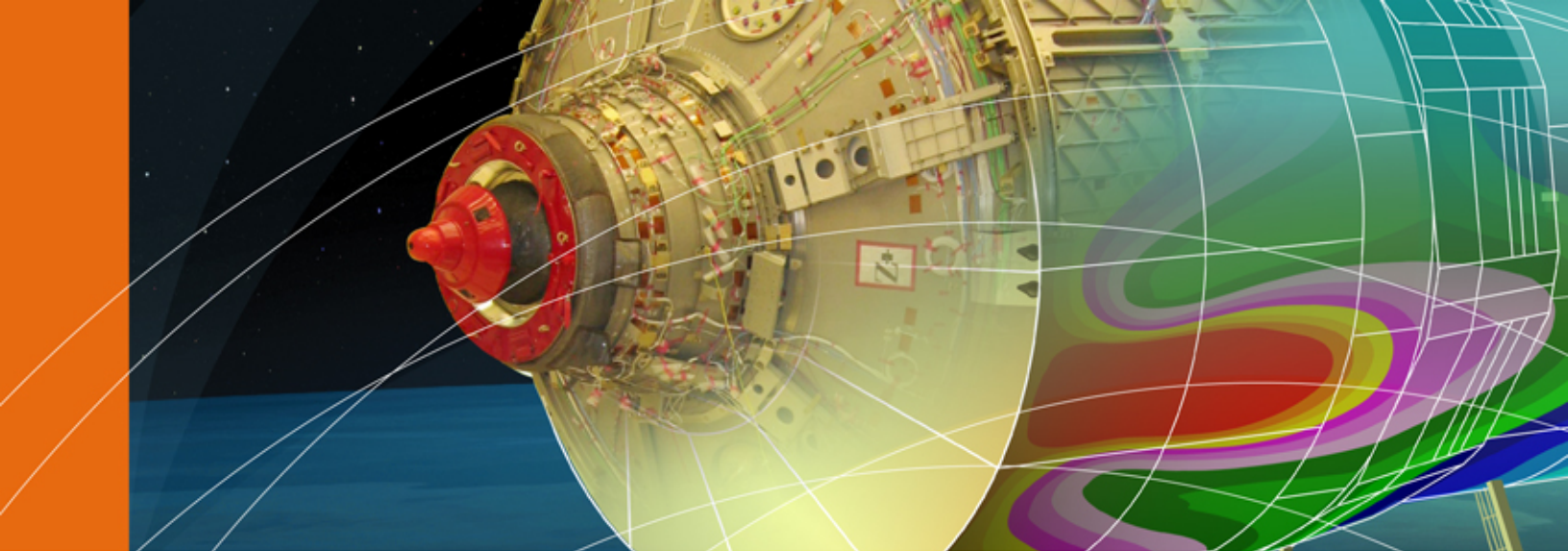
electronics services

- Digital/Analogue hardware development
- Development of multi-purpose Sensors
- Signal acquisition and conditioning
- Signal converters and actuators driving

optoelectronics services

- Development of visible and infrared sensors
- Inspection and image metrology
- Laser and fiber optics applications
- LIDAR applications
- Thermal imaging





about us

Active Space Technologies offers added-value Virtual Engineering services in the fields of thermo-mechanical engineering (thermal and structural analysis, design, manufacturing, and testing), electronics engineering (embedded systems, digital control), as well as Management Support services for technology transfer and development projects (project management, systems engineering, project coordination).

Active Space Technologies is a Europe-wide based company positioning its services in the aerospace, defence, automotive and scientific sectors.

our strengths

We provide customized solutions, supplying on-site and off-site support and guaranteeing the highest quality and shortest lead times, meeting both conventional and unconventional demands of our customers.

Active Space Technologies operates in the most demanding projects leveraged by the expertise acquired in the space sector, and on the range of engineering backgrounds of the staff, which provide a multidisciplinary approach to your challenges.

The company aims at providing services and products across the whole supply chain through synergies and integrated competences of a network of partnerships.

*Engineering services
based on space expertise*

activity sectors

Space, Aeronautics, Automotive, Defence, Fusion, Moulds, Consumer Electronics, Large Research Facilities.

record track

ADM-Aeolus, AlphaBus, ESTRACK, Galileo-IOV, ITER (EFDA), JET (UKAEA), Mars Gravity (MIT), MPO / MMO (BepiColombo), YES2, Herschel-Planck.

Customers:



This image features the European Space Agency's Automated Transfer Vehicle (ATV), the new supply spaceship of the International Space Station. Active Space Technologies thanks ESA for permission to use the image

www.activespacetech.com

*Your preferred partner for
developing integrated systems*

services

Active Space Technologies provides customized solutions, supplying on-site and off-site support and guaranteeing high quality and short lead times.

- Thermal
- Mechanical
- CAD Design
- Manufacturing
- Digital Control
- Embedded Systems
- Electronics
- Optoelectronics

quality

Active Space Technologies' quality policy aims at achieving total satisfaction of their customer's requirements by meeting and exceeding their expectations, through a continuous improvement culture.

products

Active Space Technologies offers engineering expertise in a tangible form to better serve you with products:

- ESU®: Cryogenics High Enthalpy Reservoir
- AerTPS®: Aerogel Insulation Systems
- IRRA®: IR rapid assessment
- QuickBaf®: Automatic Modeling of Stavroudis Baffles
- Vacuum Chamber (1mbar)

standards

Active Space Technologies is proficient in the application of standards for the different sectors:

- ECSS
- ISO9001
- AS9100
- ASME
- RCC-MR
- ISO16969
- VDA 6.1 / 6.3
- NP4457

Partners:



ASSOCIAÇÃO DE FABRICANTES PARA A INDÚSTRIA AUTOMÓVEL



Awards:

