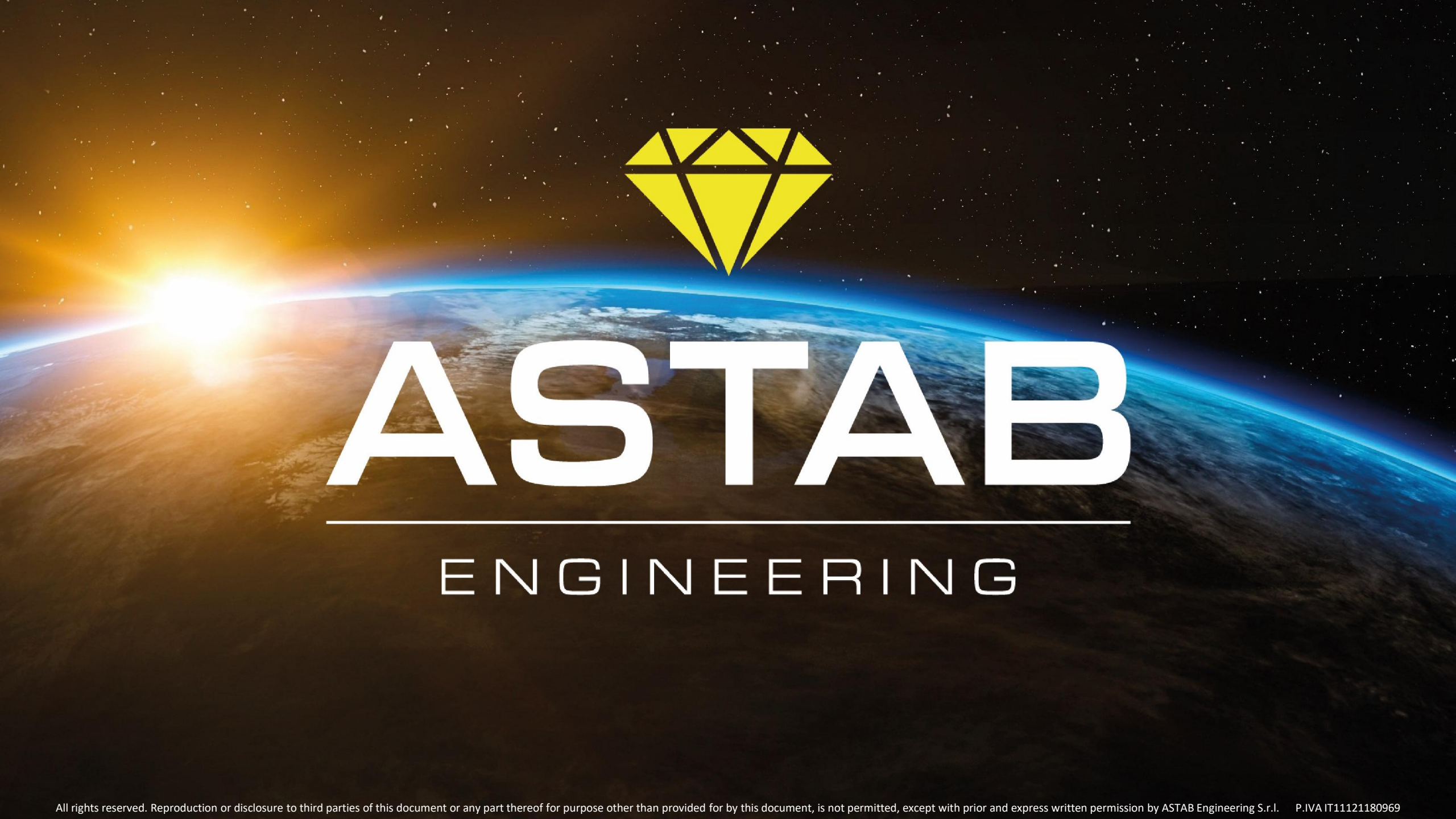
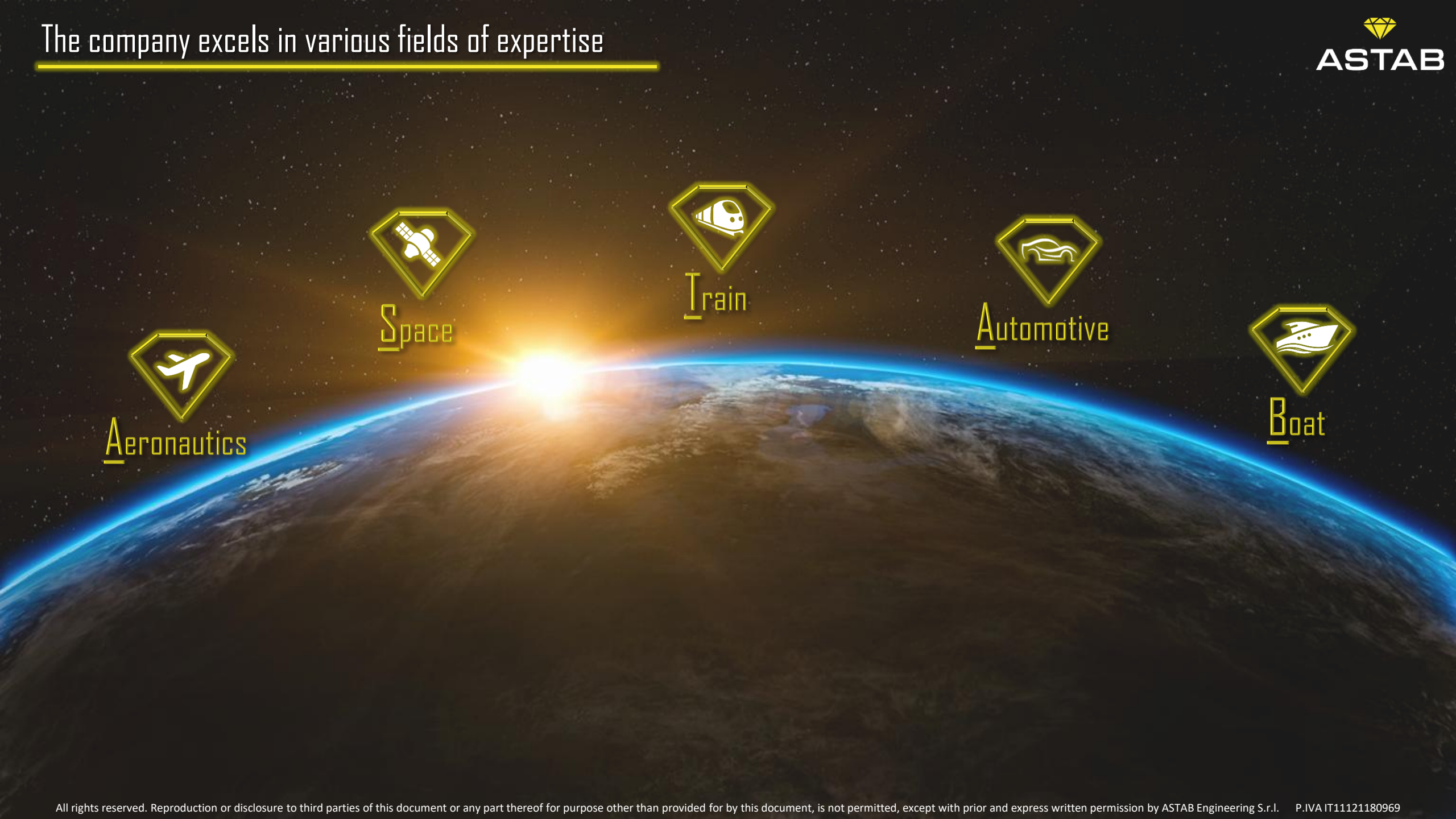


The company excels in various fields of expertise

ASTAB



The Company

ASTAB Engineering is a pioneering company in the aeronautical and space industry, known for its **cutting-edge engineering solutions**.

About Our Company

ASTAB

Founded in 2020, ASTAB began as a small venture with a vision to revolutionize aerospace technology. Today, it stands out for its **unique strength**: a **diverse team** of designers and engineers from various backgrounds and specializations. This **multidisciplinary approach** allows ASTAB to tackle complex challenges with innovative, customized solutions. The company's **commitment to excellence** and collaboration has solidified its reputation in the aerospace sector.

- **High-Quality Engineering**
- **Aerospace Expertise**
- **Multidisciplinary Team**
- **Extensive Industry Experience**
- **Diverse Project Applications**
- **Project Development**

Experiences &Projects

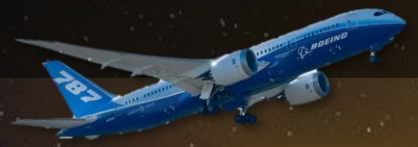
ASTAB Engineering has worked on a wide range of projects in the aeronautics and space industries. The company has developed **structural components** and composite parts for aircraft, contributed to satellite engineering, and specialized in creating jigs for **precise manufacturing**. ASTAB has also been involved in pax-to-freighter conversions and the development of luxurious VVIP interiors for private aircraft, focusing on ergonomics and cutting-edge materials. These diverse projects showcase ASTAB's broad expertise and commitment to excellence in aerospace engineering.

Projects per fields: Aeronautical and Helicopters

ASTAB ENGINEERING

B787

Fan cowls and horizontal stabilizer

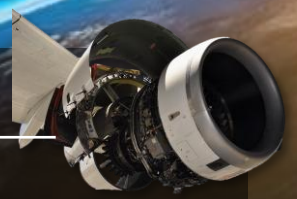


A380

Nacelle Thrust Reverse

A318

Nacelle complete
Structures and Systems



B777&B787 VVIP

Interiors
reconfiguration

ERJ170 & DO728

Complete EBU System for
GE CF34 Engine

M346 & MB339

Trainings & Defense
projects for structures
and mechanical systems

AW09-AW149

New doors for pilot, passengers
and cargo in composite material

A350 & DO328

Structural design fuselage
and systems

Volocity - Volocopter

Mechanical integration for aircraft systems.
Design support of primary and secondary structures.
DMU integration.
Harness design for FTI.
Installation and manufacturing drawings

Deutsche Aircraft: D 328 eco

ICMS Engineering Support

Engineering support for the development, verification, and finalization of interface control models and documents for propulsion system installation, based on legacy designs and supplier coordination.The activity ensures interface consistency, design maturity, and effective integration across all involved systems and partners.

3D-2D Conversion

Primary and secondary structures 3D/2D fuselage, fairings, and empennage design, including the conversion of 3D models into 2D technical drawings.The activity is based on the new aircraft digital models while adapting and updating legacy drawings to ensure design continuity, and efficient integration into the new platform.
Tooling design for machined and sheet metal structural parts.

FTE Base Plate design

Support for the development of the FTE base plate, including design, stress analysis, and manufacturing of a set adapted to the new seat mounting layout.

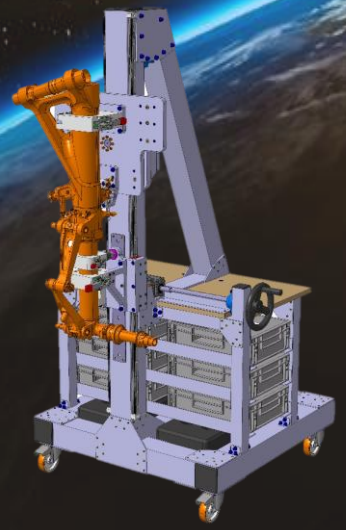
MANUFACTURING TOOLINGS Experiences

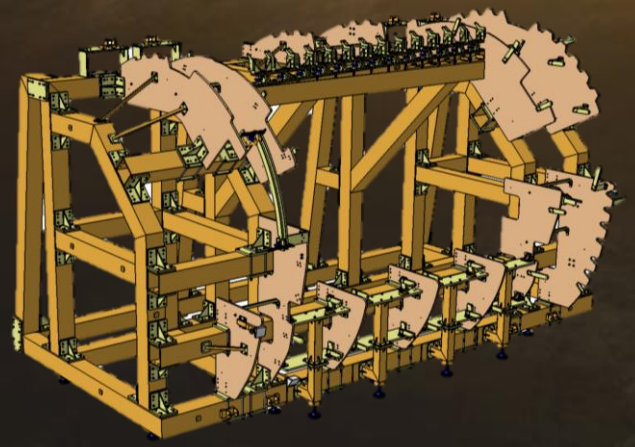
ASTAB ENGINEERING

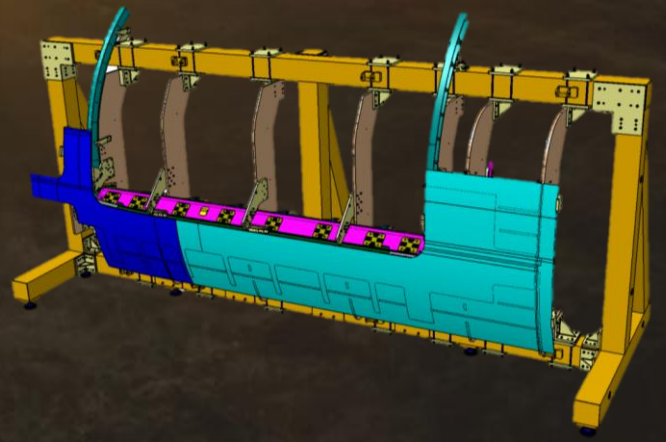
Pax-to-freighter | Manufacturing Toolings Design for pax to freighter conversion in a large airplane for projects B737, B767 and A330.

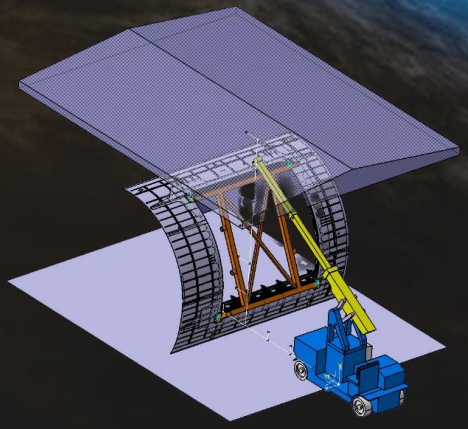
Preliminary study | Extensive knowledge on the toolings design starting from preliminary study and space allocation until the choice of materials, analysis for installation, vibrations and temperature impact considering the large size of the toolings.

Position on jig | Large experience in simulation to position the large parts into the big box ready for shipment.









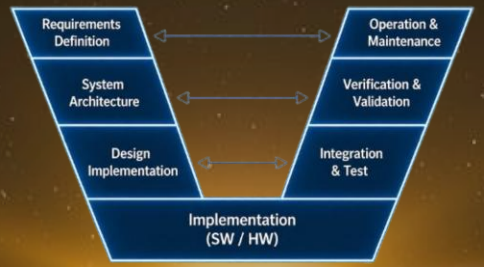
ECSS Engineering Standards

ASTAB ENGINEERING

Our engineering activities follow ECSS standards for mission and safety critical space systems

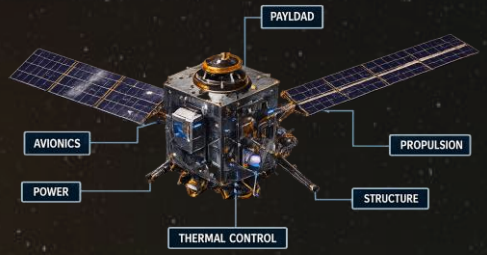
1. ECSS FRAMEWORK

- ESA standard reference
- V-model lifecycle
- Requirements traceability



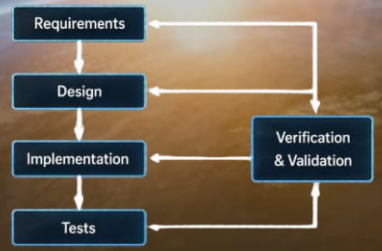
2. SYSTEM ENGINEERING

- ECSS-E-ST-10
- Architecture & Interferences
- Verifications & Validation



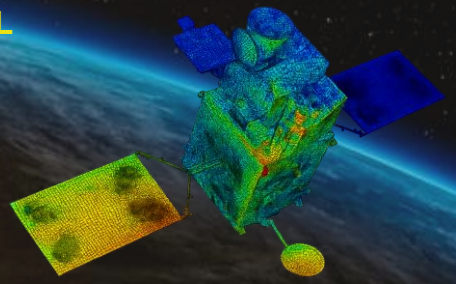
3. SOFTWARE & QUALITY

- ECSS-E-ST-40
- ECSS-Q-ST-80C
- Traceability & Assurance



4. MECHANICAL & THERMAL

- ECSS-E-ST-31 / 32 / 33
- Structural & Thermal design
- Analysis, Simulation & Testing



5. PROGRAM EXPERIENCE

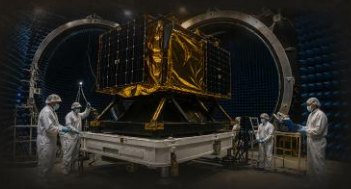
- ECSS Class A / B / C
- Launch & Space systems
- Partners: D-Orbit, The Exploration Company

D-ORBIT

The Exploration Company

6. ENGINEERING APPROACH

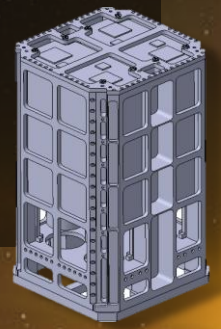
- Mission & Safety critical systems
- Multidisciplinary teams
- End-to-end lifecycle



Projects per fields: Space

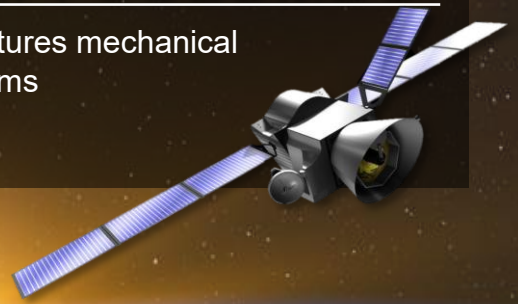
NPC – Testpod

Modal Analysis
Static Analysis at 37g, 45g and 77g
Bolt Analysis
Redesign post structural analysis



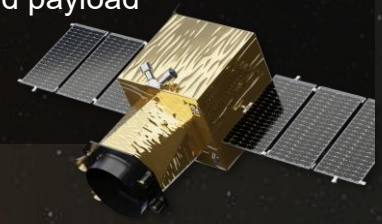
BEPI COLOMBO

Structures mechanical systems



CubeSat

Structure and payload experience



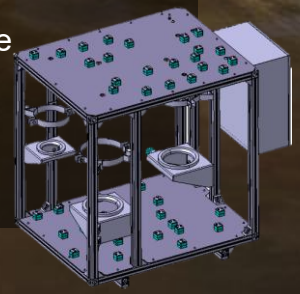
NPC – Deployer

Design and structural analysis of Satellites Deployer and Testpods for environmental testing, until Final Report.
Model 12U and 16U.

- *Modal Analysis for eigen-frequencies identification.*
- *Quasi-static Analysis.*
- Kinematic application and simulation
- *Bolt Analysis.*
- *3D Modelling and DFM.*
- *Feasibility analysis*
- *Software used: FEMAP.*
- *Analysis based on ECSS regulations.*
- *TVAC and Thermal Tests Engineering support*

D-ORBIT

MGSE Design and Structural Analysis for the fluidic breadboard of the refueling system inside the PNRR IOS program.



- *Static Analysis.*
- *Bolt Analysis.*
- *3D Modelling and DFM.*
- *Software used: ABAQUS.*
- *Analysis based on ECSS regulations.*
- *Assembly Sheets.*

SITAEL

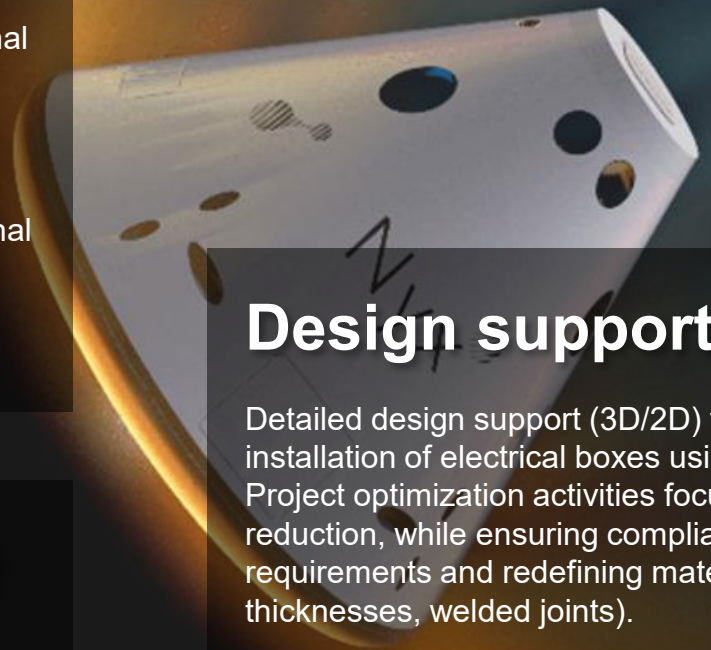
MGSE Design, Structural Analysis and Production for Vertical Hoisting Structure (VHS) Lifting Device for PLATiNO satellite.

- *Structural Analysis in different hoisting cases.*
- *Stability Analysis.*
- *Bolt Analysis.*
- *3D Modelling and DFM.*
- *Assembly Sheets.*
- *User Manuals and Design Reports.*
- *Production Engineering Support.*
- *Software used: FEMAP.*
- *Analysis based on ECSS regulations and Safety of Machinery.*

Projects per fields: Space

Composite Design

Modeling of composite parts using a zoning approach (pending final analysis) for fabric layers, with or without core material, including engineering release and production release (joints and final ply definitions for the ply book).
Preparation of 3D models and ply books for supplier delivery.
Manufacturability studies and verification of compliance with internal composite design rules (e.g. increased edge distances for fasteners, inserts, fiber orientation where required), under the guidance of the TEC team.



Design support

Detailed design support (3D/2D) for the design, assembly, and installation of electrical boxes using Siemens NX and Teamcenter.
Project optimization activities focused on welded structure mass reduction, while ensuring compliance with structural safety requirements and redefining material solutions (stiffening concepts, thicknesses, welded joints).

Thermal Control System (TCS)

Detailed design support (3D/2D) for the Thermal Control System (TCS), covering design, assemblies, and installation activities using Siemens NX and Teamcenter, and for composite parts using Siemens NX, Teamcenter, and Fibersim.
Support in the development of TCS engineering models, including detailed design and manufacturing drawings.
Mass management across the entire CAD model.
Development of the pump and piping sub-assembly, from concept to manufacturing, including detailed design and fabrication drawings

Aditional Space experiences

ASTAB ENGINEERING

Optical design

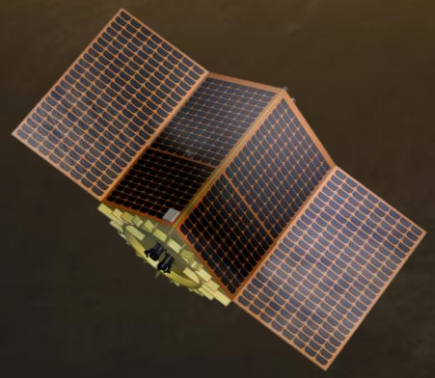
- Sensitivity Analysis
- On Orbit Performances Assessment
- Stray Light Analysis

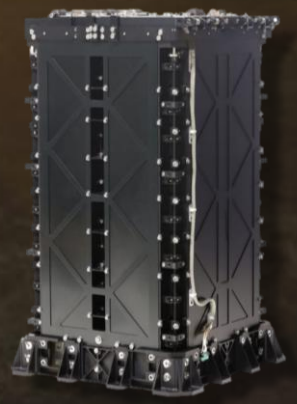
Electronic engineering

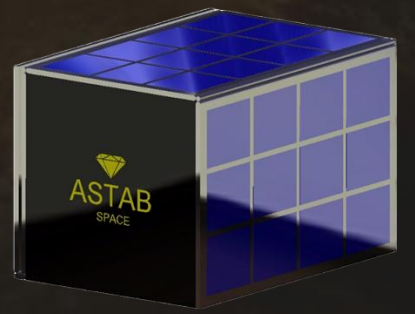
- System Electrical Engineering
- Detector Specification and Procurement
- EEE part selection, Data Processing, Software Spec
- EGSEs Design specification and Procurement

Mechanical engineering

- Structure Design
- Optomechanical Design
- Thermal Architectural Design
- ISS payload assemblies







 P.IVA IT11121180969

Projects per fields: Automotive Railroad and Assembly line

Koenigsegg Regera

Development of composite structure and test rigs.

Ferrari F1 Team

Design and development of a suspensions test equipment.

S-BAHN

Complete interior reconfiguration.
New sandwich composite floor.

Assembly line projects

- **OLIVOTTO – ANTAS**: Development of new Hollow Glass Machinery
- **OLIVOTTO – ANTAS**: Development of new Conveyors Machine & Take-out
- **PRSE**: Development of a new automatic welding system
- **PRSE**: Development of a new Adhesion Machine for the automotive field
- **CURTI Costruzioni Meccaniche**: Development of a new camera installation for wiring machinery
- **CURTI Costruzioni Meccaniche**: Development of a new laser section cut for wiring machinery

Project Phases

Analysis

The company excels in analyzing and **optimizing all phases of project development**. Beyond component development, it focuses on key aspects such as fiber composite optimization, stress analysis, and assembly animation. By integrating these elements, the company **enhances** both the **performance of individual components and the overall production process**, ensuring greater **efficiency** and **reliability** throughout each project phase.

DESIGN PROJECT PHASES

PRELIMINARY STUDIES

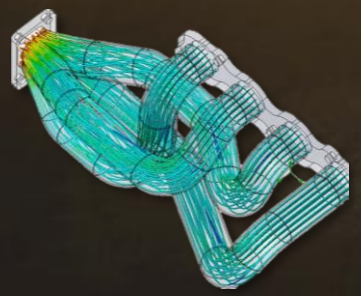
- First Weight & Cost Analysis Lay out definitions
- ICD's definitions trade study

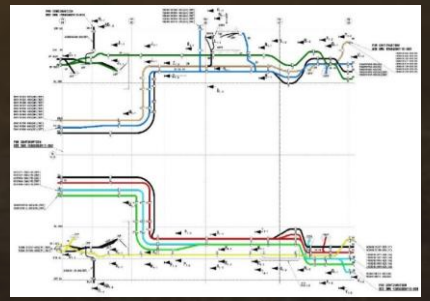
- Preliminary Definition earnings and costs configuration
- Definition Step & Gap Analysis
- CFD Analysis

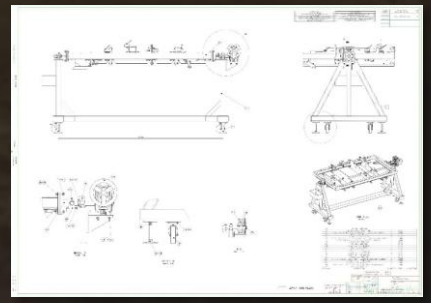
DETAIL DESIGN PHASE

- Project Reviews «PDR's CDR's» preparation & discussions problem solving & iteration with other partners Clashes
- Clearances & Tolerances analysis 3D & Surfaces definition ICD's final definition

- Daily and weekly phone calls and face to face reviews
- 2D Drawings for single parts & assemblies
- Detail Weight & Cost Analysis
- Configuration Management
- Bill of Material

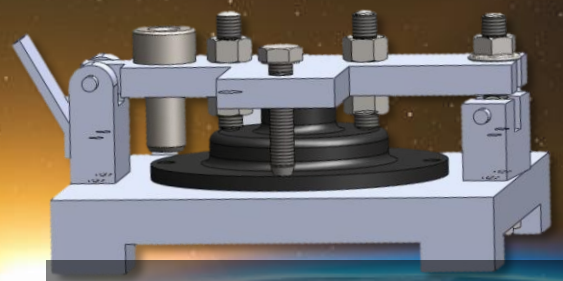




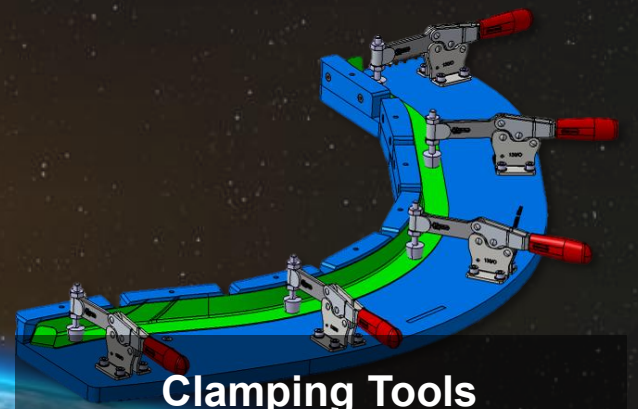


Tooling design

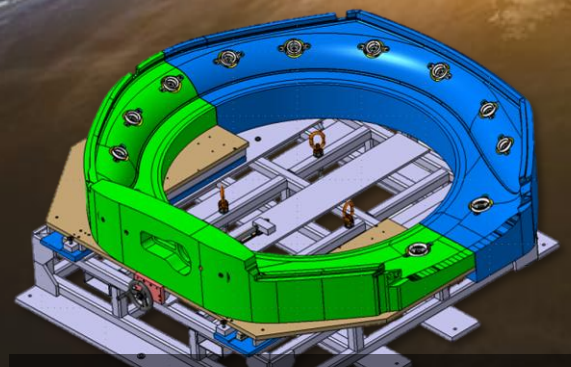
Lamination tool & Master Models for composite structures (Steel, Invar, CFRP)



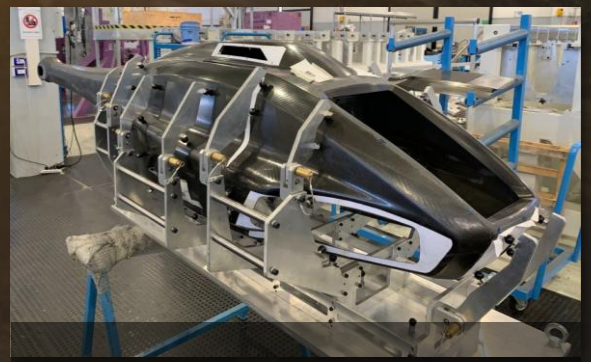
Drilling Fixture



Clamping Tools



CNC Fixture



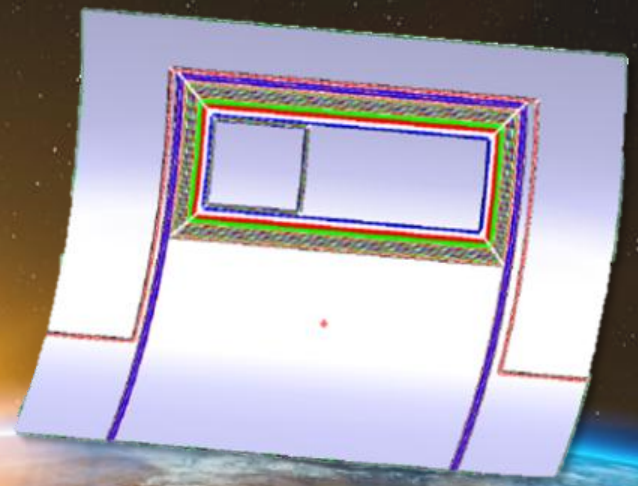
Assembly Jigs

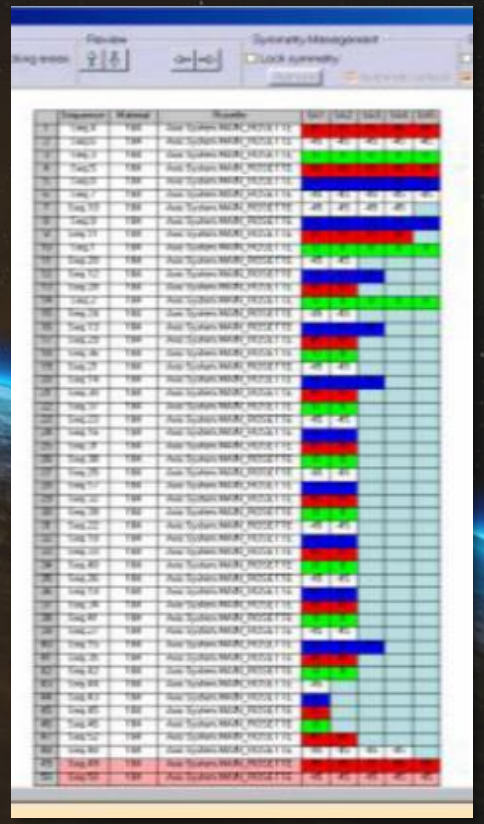
Composite design

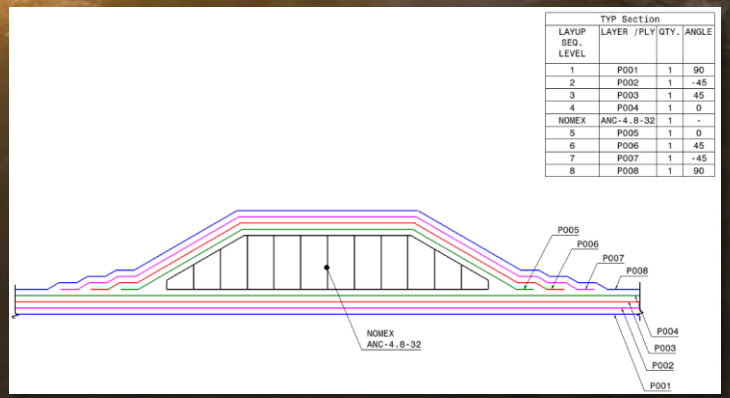
Structure & Lay Up definition, solid laminate structures, stacking preparation, sandwich structures

Drop off management and definition, Iso thickness areas definition, top Surface creation, interfaces analysis

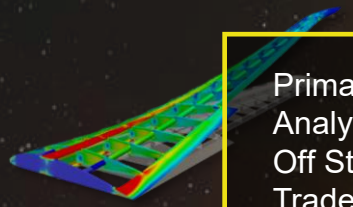
Fiber placement constrains knowledge, manufacturing sustaining, 2D Drawings creation, solid creation, ply table definition



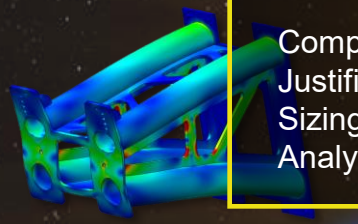




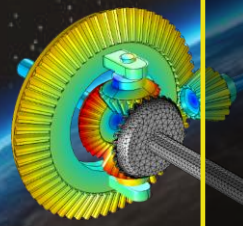
Stress analysis



Primary & Secondary Structural Analysis, Method Definition, Trade Off Studies, FEM Modelling & Trade Study



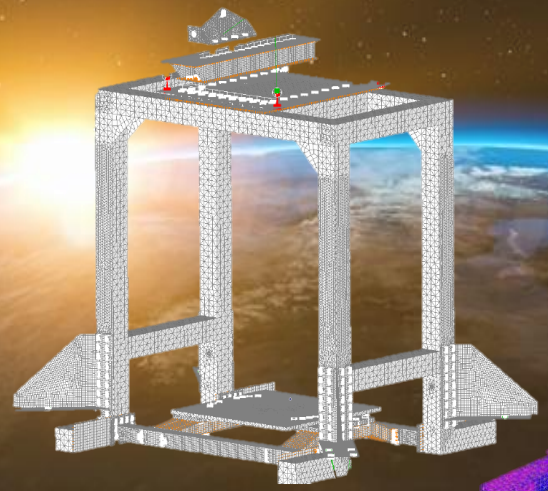
Composite/Metallic/Hybrid Analysis, Justification & Certification Phase, Sizing & Optimization Phase, Analytical Approach

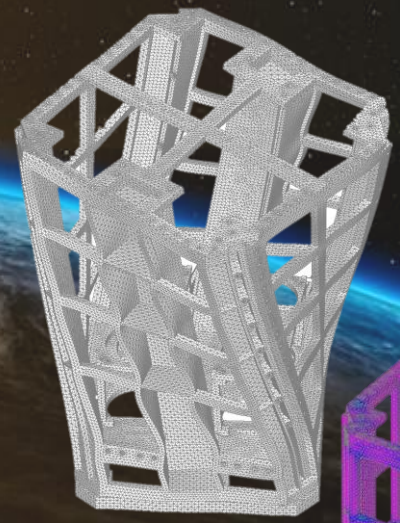


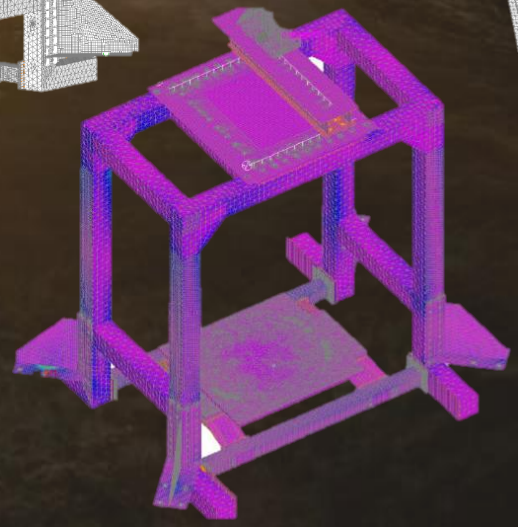
Support to Manufacturing (Concessions, Time & Methods, Workable Phase Sheet Preparation). Justification & Certification Reports, Weight & Cost Saving, Integration definition

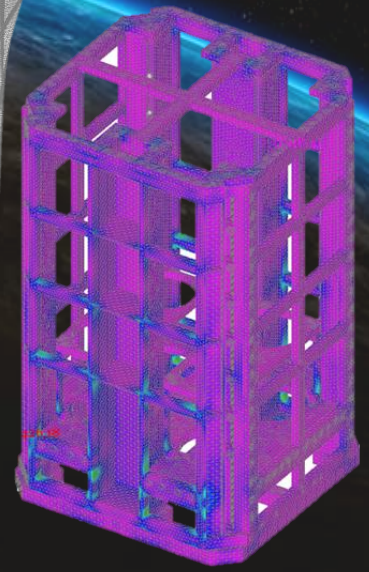
Applied method

The analysis involves applying boundary conditions and load cases to the structure based on its functional requirements, to assess stress distribution and validate the structural integrity under operational conditions.









Assembly Animation

ASTAB ENGINEERING

From traditional assembly line to smart manufacturing. Assembly animation lets you quickly create and update high-quality product materials such as documentation, technical illustrations, animations, and interactive 3D content using existing 3D design data. Assembly animation delivers clearer and more understandable information for both stakeholders and manufacturing operators by enhancing their grasp of complex details. Additionally, assembly animation enables earlier creation of product materials in the design process, speeding up time to market and reducing costs from rework.

- 2D Drawings
- 3D Models
- Product manuals
- Prototypes

- Assembly expertise
- Safety procedures
- On-site assessment
- Manufacture workflow

- Dynamic
- Flexible
- Intuitive
- Detailed

BENEFITS

Merge and optimize assembly information to improve workflow

Reduces assembly time and mistakes

Technical Services

ASTAB ENGINEERING

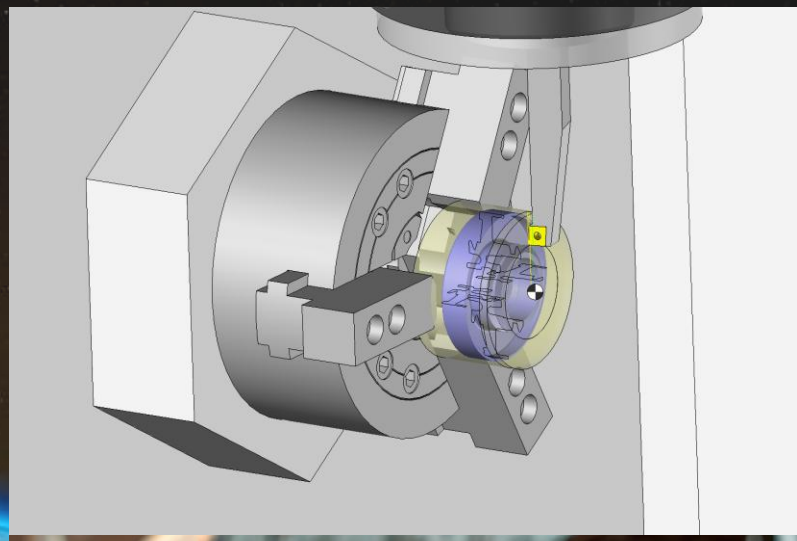
Technical Publication

Creating technology documentation is challenging. Your content needs to be engaging and clear while also being precise and reliable.

Technical publications are helpful documents in the aeronautic industry, providing detailed assembly instructions and technical data to mechanics and technicians. These publications are designed to guide professionals in solving problems and fixing issues directly at the airport.

CAM - Computer -aided Manufacturing

CAM enables precise design-to-production workflows by converting digital models into instructions for manufacturing equipment. This technology improves efficiency, accuracy, and consistency in production while minimizing human error. By streamlining operations and reducing setup time, CAM helps manufacturers achieve faster production cycles, better quality control, and increased flexibility in handling complex designs or small-batch production runs.



Manufacturing cycles

Manufacturing cycles encompass all the steps and activities involved in transforming raw materials into finished goods. By defining these cycles, production companies and workers gain a clearer understanding of the product and its requirements, leading to reduced production time, optimized processes, and minimized errors.

FAI - First Article Inspection

The FAI is a production validation process used to confirm that a new or modified manufacturing process produces parts that conform to the specifications outlined in technical or engineering drawings. All collected data from the inspection is compiled into a report called the First Article Inspection Report (FAIR), which includes detailed information about the validation process and dimensional checks. It aims to keep control over the production quality.

Our company aim to find the best solution based on each client need to have the best possible response.

Technical Services

ASTAB ENGINEERING

CE Certifications

We provide expert consulting services to support companies in aligning their systems, products, or projects with applicable European Union regulations and directives, enabling successful CE certification.

Compliance Projects with Adaptation Solutions

Our services cover the full compliance journey, from regulatory analysis and gap assessment to technical documentation, risk analysis, and conformity evaluation. We work closely with clients to interpret complex EU requirements, identify applicable standards, and implement effective solutions that ensure safety, performance, and regulatory compliance.

1) **Electromagnetic Compatibility (EMC/E3)**
   - MIL-STD-464C – System-level E3 requirements
   - IEC/EN 61000-6-2 – Generic EMC immunity standard for industrial environments
2) **Electrical / Product Safety**
   - IEC/EN 61010-1 – Safety requirements for electrical equipment for measurement, control, and laboratory use
3) **EU Regulatory Framework for CE Marking**
   - EMC Directive 2014/30/EU – Electromagnetic compatibility
   - Low Voltage Directive 2014/35/EU (LVD) – Electrical safety (often applied in conjunction with EN 61010-1 and EN 60825-1)
4) **MIL-STD-810 (latest revisions H/G) – Environmental test methods**
   - Verification of operational and environmental conditions over the system life cycle
   - Theoretical verification and documentation review, analysis, and definition of criteria for design adaptation in accordance with the methods specified in the standard
5) **IEC 60529 (IP Code) – Degrees of protection against dust and liquids**
   - Verification of enclosure protection and resistance

Our company aim to find the best solution based on each client need to have the best possible response.

Technical Services

ASTAB ENGINEERING

Electrical & Electronic Design Compliance

Electrical and electronic design verification to ensure EMC performance, immunity, and electrical safety compliance with applicable standards and regulatory requirements.

(electrical schematics, control panels, control systems)

- Coordination of Software development for **CRM and CTI systems**
- Design and supervision of **control, monitoring, and automation systems**, including integration with IoT devices and data acquisition systems
- Definition of solution architectures **for operational process control** and information flow management
- Programming: C/C++, C#, Visual Basic
- Hardware/software integration for **industrial and telecommunications systems**
- Technical analysis, feasibility studies, and support for **prototype development**

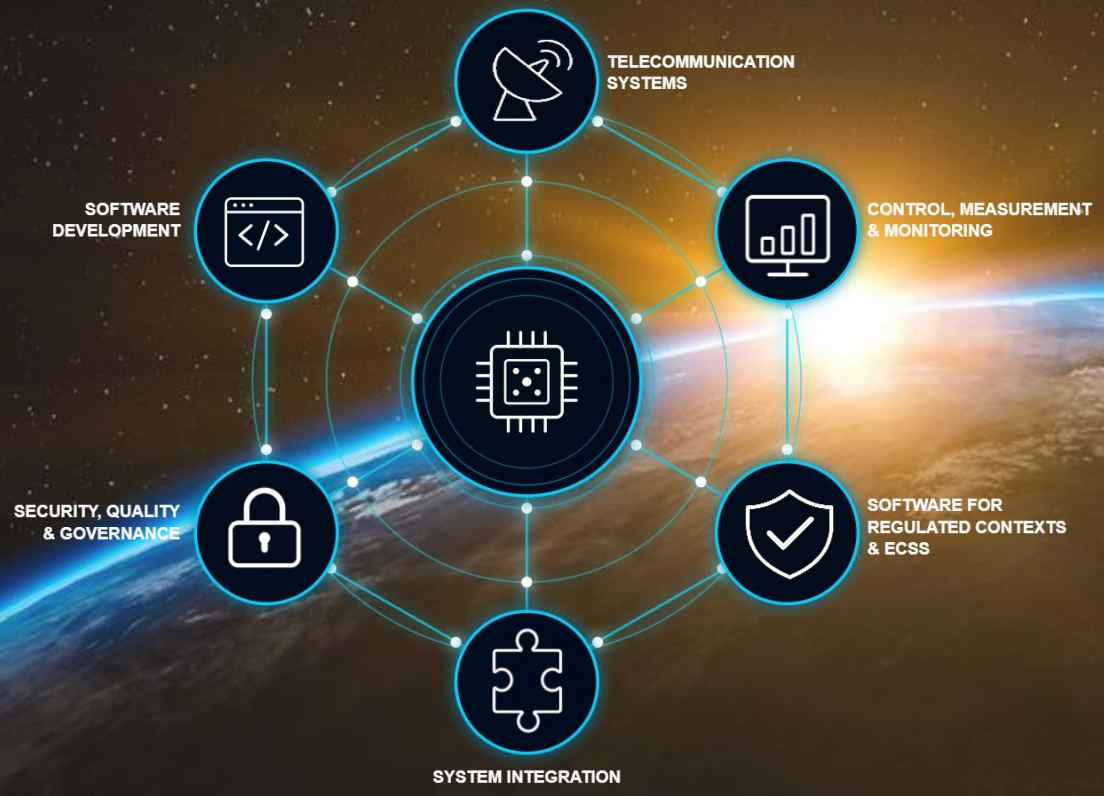
- *Electrical and electronic design (core scope)*
- *Theoretical verification of filters, cabling, and shielding for conducted emissions*
- *Verification of shielding, PCB layout, and component placement for radiated emissions*
- *Theoretical analysis of protection against conducted disturbances on power supply lines*
- *Analysis of shielding and PCB layout for immunity to radiated electromagnetic fields*
- *Verification of TVS protections, grounding paths, and barriers for electrostatic discharge (ESD)*
- *Design verification for immunity to electromagnetic pulses (layout, filters, shielding)*
- *Verification of grounding continuity and grounding strategy*
- *Theoretical analysis of protection against lightning-induced overvoltages*
- *Documentary verification of ESD protections on I/O lines*
- *Theoretical analysis of shielding and PCB layout for radiated RF fields*
- *Verification of protections on power supply and I/O lines*
- *Verification of MOV/TVS protections and filters*
- *Verification of filters, layout, and signal/power cable separation*
- *Design verification against magnetic interference*
- *Design verification for operation under voltage dips and interruptions*
- *Verification of clearance and creepage distances according to overvoltage category*
- *Theoretical analysis for dielectric withstand tests*
- *Verification of barriers, enclosure, earthing, and protective measures*
- *Verification of maximum component and surface temperatures*
- *Verification of conductor fastening, mechanical protection, and screw tightening*
- *Verification of insulating materials and critical fuses*
- *Verification of labels, symbols, and warnings*
- *Availability of the EMC technical file*
- *Use of harmonized standards to demonstrate conformity*
- *Applicability for rated voltages 50–1000 Vac / 75–1500 Vdc*

Our company aim to find the best solution based on each client need to have the best possible response.

Competence Profile

ASTAB ENGINEERING

We combine multidisciplinary technical expertise, system vision and an integrative approach to deliver reliable, scalable and high-performance solutions.



TELECOMMUNICATION SYSTEMS
VoIP, IP networks, CTI integration, contact center platforms and scalable communication architectures.

CONTROL, MEASUREMENT & MONITORING
Remote monitoring, IoT solutions, data acquisition and process control with dashboards and supervision tools.

SOFTWARE DEVELOPMENT
Web and enterprise applications, CRM, workflow, automation and system integrations through APIs and connectors.

SOFTWARE FOR REGULATED CONTEXTS & ECSS
Requirements traceability, V&V approach, structured documentation and lifecycle management for critical systems

SYSTEM INTEGRATION
Interoperability between devices, networks, applications and processes for complete and efficient solutions.

SECURITY, QUALITY & GOVERNANCE
Cybersecurity, GDPR compliance, risk management, operational continuity and process governance.

From requirements to commissioning: integrated solutions that are reliable, secure, compliant and built to last

 P.IVA IT11121180969

Engineering Approach & Value

ASTAB ENGINEERING

A structured engineering approach that transforms complex requirements into reliable, secure and future-ready solutions

STRUCTURED ENGINEERING APPROACH

- Requirements analysis & system architecture
- HW / SW/ network integration
- Modular and scalable design
- Verification, validation & testing

COMPLEX SYSTEM INTEGRATION

- Interoperability across systems and platforms
- Data flow and process integration
- IoT, telecom and software convergence
- End-to-end solution deployment

QUALITY, SECURITY & GOVERNANCE

- Reliability and operational continuity
- Cybersecurity & data protection (GDPR)
- Risk analyisis and process control
- Compliance with structured standards (ECSS-ready)

VALUE DELIVERED

- Reduced system complexity
- Improved operational control
- Reliable and actionable data
- Scalable and future-ready solutions

END-TO-END SUPPORT

- From requirements definition
- To system deployment
- Ongoing support and system evolution

OUR ENGINEERING FLOW

REQUIREMENTS
Understand needs and objectives

→

ARCHITECTURE
Design robust and scalable solutions

→

INTEGRATION
Integrate systems, devices and platforms

→

VALIDATION
Test, verify and ensure compliance

→

DEPLOYMENT
Deliver, monitor and ensure performance

From requirements to commissioning:
integrated solutions that are reliable, secure, compliant and built to last

RELIABLE | SECURE | COMPLIANT | BUILT TO LAST

 P.IVA IT11121180969

Tools and Methods

The company uses **advanced tools** like parametric CAD, FEM, and CFD software to develop precise and reliable projects. It prioritizes **quality through certifications** and employs **skills management** tools to **optimize team capabilities**, ensuring efficient and expert project execution.

DESIGN & STRESS ANALYSIS TOOLS

ASTAB ENGINEERING

Primary Softwares. Different solutions will be evaluated case by case.

DESIGN

CATIA V5

3D Surfaces & Advanced Surfaces
2D Drawings single parts
2D Drawings Assembly
3D Assembly & HMF
Electrical Drawings
Electrical Installations
3D Sheetmetal
3D Modelling
3D FTA

CATIA V5 Special Toolings

CPD for Composite
Kinematic
Electrical Harness
Piping
DMU
Catia composer

ADDITIONAL ACTIVITIES

Creation and insertion/integration of work cycles
Creation and insertion/integration of data for CNC controlled machine tools
Lay-out creation

ADDITIONAL SW

NX Siemens
SolidWorks
PTC Creo
Fibersim

STRESS ANALYSIS

NASTRAN

Fatigue & Damage Tolerance Analysis
Linear & Non-Linear Analysis
Finite Element Analysis
Composite Analysis
Vibration Analysis
Buckling Analysis
Thermal Analysis

PATRAN

Composite Laminate Modelling
Linear & Non-Linear Modelling
FEM Integration & Multi Body
Advanced Geometry
Basic Durability
FEM Creation

ADDITIONAL SW

CFD Analysis
LS – Dyna
Femap
Ansys

Competences and quality certification

CAM – FAI – Manufacturing Cycle - Technical Pubblication

- Technical Services
- Surface Design
- Parts & Assembly Design
- Stress analysis & report
- **COMPETENCES**
- Composite structure specialist
- Toolings design
- Manufacturing engineering
- CFD analysis

Quality certification for ISO 9001 ISO 9100

- Quality Review Meeting (QM)
  WP Internal Operations Meeting
- Planning Definition & Monitoring
- Brainstorming & Drumbeat meetings
- R&D Innovation Team
- KPI Constant Monitoring (OTD & FTR)

ASTAB

Clients

PLYFORM COMPOSITES
AVIO
CURTI AEROSPACE
wisk
Technodata
RECARO
NPC new production concept
ELECTRA
AXALP TECHNOLOGIES
LMA AEROSPACE TECHNOLOGY
SITAEL
AVIOREC COMPOSITES
DEUTSCHE AIRCRAFT
SST FLUGTECHNIK
OHB
D-ORBIT NEW SPACE SOLUTIONS
LEONARDO
CycloTech R.EVOLUTION OF MOTION
VOLOCOPTER
SKY EYE SYSTEMS UNMANNED AERIAL SOLUTIONS
PIAGGIO AEROSPACE
The Exploration Company
AS AEROSVILUPPI
UMS SKELDAR
MANTAGROUP supplying excellence
Torand Consulting
ICEGES
MAG MECAER | AVIATION | GROUP

Resources and Skills Managment

ASTAB ENGINEERING

SKILL MATRIX DESIGN TEAM

Mod. GP-01-20
Pag. 1

Project Name:	
Company Name:	

Technical Description

Legend:
(0) -> No Experience
(1) -> Basic (able to perform with supervision)
(2) -> Competent (able to perform work individually)
(3) -> Expert (able to train people)

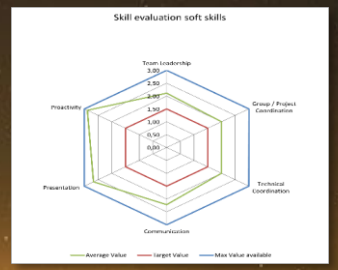
		Target	Max available	Average	DESIGN Project Team 1	2	3	4	5	6	7	8	9	10	10	10
					ASTABDS001	ASTABDS003	ASTABDS004	ASTABDS009	ASTABDS027	ASTABDS028	ASTABDS029	ASTABDS019	SIMONE	Designer 10	Designer 11	Designer 12
		Skill level according legend														
spec. Know How	3D Creation for Machining Parts	1,8	3,0	2,2	3	3	3	1	2	2	3	2	1			
	3D Creation for Sheet Metal Parts	1,8	3,0	2,0	3	3	3	2	1	1	2	2	1			
	3D Creation for Surfaces	1,8	3,0	1,8	3	3	3	1	1	1	1	2	1			
	3D Assembly Creation	1,8	3,0	2,3	3	3	3	2	2	2	2	2	2			
	3D Composite Creation	1,5	3,0	0,8	2	2	2	1	0	0	0	0	0			
	3D HNF	1,8	3,0	1,1	2	2	2	1	0	1	1	1	0			
	3D Kinematics	1,5	3,0	1,7	2	2	2	1	1	1	3	2	1			
	DMU	1,8	3,0	2,3	3	2	3	2	2	2	3	2	2			
	2D Drawings Creation for Single Parts	1,8	3,0	2,4	3	3	3	3	2	2	2	2	2			
	2D Drawing Creation for Assembly	1,8	3,0	2,2	3	3	3	2	2	2	2	2	1			
	2D Drawing Creation for Composite and Ply Table	1,5	3,0	0,8	2	2	2	1	0	0	0	0	0			
	BOM Creation	1,8	3,0	2,3	3	3	3	2	2	2	2	2	2			
	Tolerances and Gaps Analysis Experience	1,5	3,0	1,6	2	2	2	2	1	1	2	2	0			
	Check Experience	1,8	3,0	2,2	3	3	3	2	1	2	2	2	2			
Tools required	CATIA V5	1,8	3,0	2,2	3	3	3	1	2	2	2	3	1			
	SHEET METAL	1,8	3,0	1,7	3	2	2	1	1	2	1	2	1			
	DMU	1,8	3,0	2,3	3	3	3	1	2	2	3	2	2			
	CPD	1,5	2,0	0,6	2	1	1	1	0	0	0	0	0			
	KINEMATIC	1,5	3,0	1,2	1	2	2	1	0	0	3	1	1			
	MS Office (Powerpoint, Word, Excel, etc)	1,8	3,0	2,8	2	3	3	3	3	3	3	2	3			
Soft Skills	Team Leadership	1,5	3,0	2,1	2	3	3	2	1	2	2	2	2			
	Group / Project Coordination	1,5	3,0	2,0	2	2	3	1	2	2	2	2	2			
	Technical Coordination	1,5	3,0	2,0	2	2	3	1	2	2	2	2	2			
	Communication	1,5	3,0	2,2	1	2	2	2	3	2	3	2	3			
	Presentation	1,5	3,0	2,7	2	3	3	2	3	3	3	2	3			
	Proactivity	1,5	3,0	2,9	3	3	3	3	3	3	3	2	3			
					2,42	2,50	2,62	1,62	1,50	1,62	2,00	1,73	1,46	####	####	####

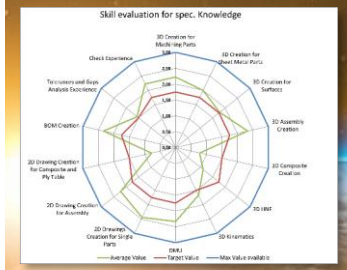
Methods/ Materials
spec. Knowledge
Tools required for WP
further Tools
Soft Skills

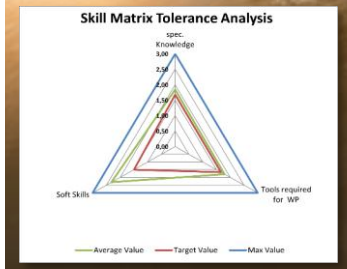
Value between 2 to 3
Value between 1 to 2
Value between 0 to 1

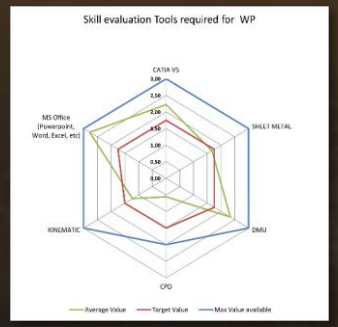
Emissione - Issue IP Approvazione - Approval: GQ

Ed. 1 Data - Date 16/04/2021 Rev. 0 Data - Date 16/04/2021









- Evaluation, development and optimal use of resources in projects
- Skill matrix evaluation
- Regular skill update
- Sessions of dedicated trainings constantly in progress

CONTACTS

ASTAB ENGINEERING S.r.l.

Locations

Via Saffi 8, Milano (Italy) 20123 – *Legal Office*

Via Vigevano 33, Milano (Italy) 20144 – *Operative Office*

Phone +39 02 87176169
Email astab@astabengineering.com
Pec email astabengineering@pec.it
Website www.astabengineering.com

VAT. N. IT 11121180969

Facebook @astabengineering
Instagram @astabengineering
Linkedin ASTAB Engineering Srl

 P.IVA IT11121180969