

Antony MORVAN



Contact

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Key Skills

- Design :
 - 3D Experience, CATIA V5
- Programming :
 - MATLAB, C++, Python
- Simulations :
 - FEA : Abaqus
 - CFD : Ansys Fluent
 - Space mission : Ansys STK
- Testings :
 - Definition
 - Realization
 - Analysis
- Project management
- Office Pack

Soft Skills

- Problem-solving
- Adaptability
- Team spirit
- Rigor
- Taste for challenge

Languages

- English : C1
- French : Native - Business Mention
- Spanish : B1

Interests



References available upon request

Aerospace Engineer

Aerospace engineer, currently pursuing an Advanced Master's degree at ISAE-SUPAERO. Motivated by innovation and advanced technologies, I am seeking a **6+ month opportunity from April 2026** (internship or entry-level) to apply and further develop my skills in design, R&D and/or system integration.

Professional experiences

Mechanical Design Engineer | AIRBUS Helicopters

March - September 2025 | Internship | Paris-Le Bourget, France

- Designed and validated a **structural** pre-sizing methodology for composite helicopters blades.
- Integrated an **advanced composite** manufacturing solution into the design loop, enhancing process efficiency.
- Conducted **test definition, mechanical characterization**, and model correlation.
- Delivered predictive **design tools** and technical documentation supporting future rotor blade developments.

R&D Engineer | Ateliers BIGATA

July - August 2024 | Fixed-term Contract | Eysines, France

- Led cryogenic **test campaigns** for system validation and performance characterization.
- Developed & optimized gas and cryogenic test procedures, ensuring data accuracy and operational safety.
- Managed instrumentation, data acquisition and result analysis.
- Trained and supervised an intern to ensure project continuity.

R&D Engineer | Ateliers BIGATA

July - December 2023 | Internship | Eysines, France

- Contributed to the **full design cycle** of a cryogenic test bench.
- Performed **Mechanical & Fluid Design**
- Led experimental qualification & validation.
- Creation of **procedures & tests** : gas & cryogenic.
- Developed instrumentation and acquisition systems.
- Established procedures for gas and cryogenic operations.

Education

Advanced Master, Aerospace Structures

ISAE-SUPAERO | 2025-2026 | Toulouse, France

- Structural Modelling & Design
- Spacecraft and Launcher Design
- Innovative & Strategic management
- Aerospace qualification
- Dynamics, Flexible, Fatigue
- Mechanics of materials

Aerospace Engineer, Master's degree

ELISA Aerospace, Engineering school | 2020-2025 | Bordeaux, France

Missiles and Space Systems engineering Major, GPA : 3.6/4

- FEA, CAD, Programming
- Space & Fluid Mechanics
- Aerodynamics (Space Launchers, Compressible, Hypersonic)
- Satellites, Launchers & Missiles Design
- Operational safety
- Composite Materials
- Heat transfer
- Material strengths
- Machine Learning