



Manuel Colino Fernández

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PROFILE

Master's student in **Aerospace Engineering** at **ISAE-SUPAERO**, I specialize in **Systems Engineering**, particularly Model-Based Systems Engineering (**MBSE**), with training covering the entire system life cycle, from **requirements** and **architecture** to **validation**. I have gained experience with **ABAQUS** and computer-aided design (**CATIA V5**), and I am proficient in **Python**, **MATLAB**, and **Java**. I seek to contribute to innovative aerospace projects, driven by a strong interest in the connection between systems and their operations.

EDUCATION

ISAE-SUPAERO

Toulouse, France

Master's in Aerospace Eng, GPA: 3.81/4

2024 – 2026

- **Systems Engineering Specialisation:** diving into the fundamental concepts of systems engineering (requirements engineering, MBSE, systems design, functional and physical architectures, and V&V)
- **Research project** on Composite Laminates H2 Cryogenic Tanks: Comparing Damage Test Results and Multiscale Modeling
 - Development of numerical models in ABAQUS carbon-fiber specimens, incorporating progressive damage laws and delamination modeling, alongside experimental testing for validation

Universidad Carlos III de Madrid

Madrid, Spain

Bachelor's in Aerospace Eng, GPA: 8.26/10

2020 – 2024

- Received Madrid Excellence Scholarship and honors in Thermodynamics, Information Skills and Bachelor's Thesis

Purdue University

Indiana, USA

Bachelor's in Aerospace Eng, GPA: 3.9/4

2022 – 2023

- Participated in the Purdue Formula SAE team, contributing to the manufacturing of a student-designed formula car
- Included in the Dean's List and received Semester Honors (Fall 2022, Spring 2023)

PROFESSIONAL EXPERIENCE

Airbus Defence and Space

Immenstaad, Germany

Systems Engineer (Bachelor Thesis) - Chief Engineering, Science & Life Support Systems

January 2024 – July 2024

- Responsible for the design (CATIA V5), production, and assembly of a physical mock-up used for electrical harness integration of an ISS payload
- Worked daily with the digital mock-up, manipulating harnesses, removing cables, and assembling parts using CATIA V5 boolean operations to verify routing and assembly feasibility
- Conducted analysis of manufacturing options, coordinating with suppliers and creating the installation and assembly manual for the electrical integration team

Aciturri Aerostructures

Madrid, Spain

Space Design Engineering Intern

May 2023 – August 2023

- Developed a pneumatic actuator test bench with Festo standard parts, conducting modeling in CATIA V5
- Created technical drawings for Miura 5 launcher fairing and components following AIRBUS standards

ADDITIONAL INFORMATION

- Languages: native Spanish, fluent English (C1-C2), advanced French (B2)
- Software: Python, MATLAB, Java, Excel, CATIA V5, ABAQUS; familiar with MBSE tools (Cameo, Rhapsody, Capella)

EXTRACURRICULAR ACTIVITIES

Private Pilot License (PPL) program

Toulouse, France

SUPAERO Air Operations Centre

September 2024 – present

- Earned a spot in a competitive flight training program, receiving extensive funding (+5,000€) for the license
- Hands-on training with real aircraft, gaining practical operational experience in aeronautics and aircraft systems

FPV Drone Assembly

Toulouse, France

- Assembling an FPV drone from scratch, gaining experience in electronics, mechanical assembly, and systems integration

Certifications

- DeepLearningAI Supervised Machine Learning: Regression and Classification in Python (NumPy, scikit-learn)

Sports and other Activities

- Scuba Diving enthusiast and passionate for Enduro and Motocross