

ADAM EL GHAIB

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[Online Portfolio](#)

I view myself as an individual deeply passionate about engineering in general, but particularly about space exploration and robotic systems. I seek to leverage every chance I encounter to broaden my knowledge and enhance my skills. Throughout my career, I have participated in two rocketry-related student projects, completed an internship in a parachute company, and worked one year in the automotive sector for a German consultancy. Currently, I strive for opportunities to learn more, to grow into a better version of myself, and to utilize the competencies I acquire in ways that contribute to meaningful purposes.

EDUCATION

Luleå University of Technology (LTU) - Kiruna, Sweden

Sep, 2024 - present

Master Program in Space Science and Technology (120 ECTS)

Erasmus Mundus Joint Master Degree. I joined [FENRIR](#), a student project part of the REXUS program. My second-year specialization will be in Space Robotics and Automation at Aalto University, Finland.

Polytechnic University of Catalonia (UPC) - Terrassa, Spain

Sep, 2019 - Jun, 2023

Bachelor's Degree in Aerospace Vehicles Engineering (210 ETCS)

Training in different engineering aspects, emphasizing aerospace vehicle design, operation, and maintenance. I joined [CosmicResearch](#) an amateur rocketry student project.

Erasmus+ Exchange Program (30 ECTS) at Linköping University - Sweden. Carried out my final degree thesis at the Fluid and Mechatronics Systems department. Title: *"Exploration of Force Control in UAV actuators"*. Grade: Pass with distinction 5.0/5.0.

Publications

Badia, A., Cantos, D., el Ghaib, A., Hidalgo, J., Martí, M., & Pena, A. (2022). [Final testing, pre-launch activities, launch and post-launch analysis of a sounding rocket made by students in Spain](#). 4 th Symposium on Space Educational Activities Barcelona.

WORK EXPERIENCE

The Bertrandt Group - Castellví de Rosanes, Spain

July, 2023 - June, 2024

Electronics Validation Engineer

- Validating software integration between different car Electronic Control Units (ECUs).
- Using hardware-in-the-loop techniques (HiL) to test the customer's requirements and reporting unexpected behaviors.
- Ensuring the correct execution and automation of around 800 tests for each software release.

CIMSA Ingeniería de Sistemas - Granollers, Spain

Nov, 2022 - Jan, 2023

R&D Aerospace Engineer Intern

- Developed an Excel tool for the company to process data from the book "Parachute Recovery Systems Design Manual, T.W. Knacke".
- Provided suport to other departments in CAD.

Software Skills

C++, stm32CubeIDE (RTOS), SolidWorks, Abaqus, Xflr5, LTspice, LabView, Matlab, (Engineering), HTML, CSS, Node.js, SQL (Beginner WebDev), LaTeX, MS Word, MS PowerPoint (Reporting).

Languages

Spanish, Catalan, and Arabic (Native). English (Fluent, C1). French, and German (Beginner, A2).