

# ADAM EL GHAIB

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I view myself as an individual deeply passionate about engineering in general, but particularly about 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

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Luleå University of Technology (LTU) - Kiruna, Sweden Aug, 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 is space Robotics and Automation at Aalto University, Espoo, Finland.

Polytechnic University of Catalonia (UPC) - Terrassa, Spain Sep, 2019 - Jun, 2023

### **Bachelor's Degree in Aerospace Vehicles Engineering** (210 ECTS)

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

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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<sup>th</sup> Symposium on Space Educational Activities Barcelona.

## WORK EXPERIENCE

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The Bertrandt Group - Castellví de Rosanes, Spain July, 2023 - Jun, 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 July, 2023 - Jun, 2024

### **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 support to other departments in CAD.

## Software Skills

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

## Languages

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