

# ADAM EL GHAIB

98142 Kiruna , Sweden

+34 601 360 779

adam.elghaib@gmail.com

[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

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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.
- Next academic year, I'll specialize in Control Engineering at the Czech Technical University (CTU) in Prague.

Polytechnic University of Catalonia (UPC) – Terrassa, Spain

Sep, 2019 – Jun, 2023

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

1. 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; I 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 – 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 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).