



Judith H. Ribé

Aerospace Systems Engineering

Begues, Catalonia, Spain

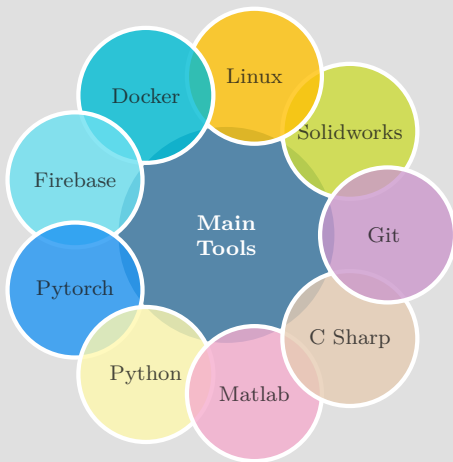
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Languages

- Catalan (Native) ●●●●●
- Spanish (Native) ●●●●●
- English (C1 Certificate) ●●●●●
- French (A1) ●●●●●

Skills



Awards

- 2022 **Winner team of the SSDW**
Entity: Institute of Space Systems, IRS (Stuttgart)
- 2019 **Local winner of "Explorer"**
Entity: Banco Santander and CISE
Prize: I won a 7-day trip to Silicon Valley visiting high-tech companies: Google, Facebook, Salesforce, Paypal...
- 2016 **Winner of "El Gran Salt"**
Entity: Castelldefels Town Hall

Working Experience

- July 2021 - Currently **Back-end Developer**
Freelance
Tasks: Rest API queries development, databases management, testing, hexagonal architecture implementation.
Tools: FastAPI · Docker · Git · Linux · MacOS · Hexagonal Architecture · Unit Testing · Integration Testing · pytest · Firebase · Python · Git Hub · OOP
- September 2021 - Currently **AI Developer**
Freelance
Tasks: Prepare and study data collections, train convolutional neural networks, prepare results for customers.
Tools: Deep Learning · PyTorch · Pytorch Lightning · Scikit-Learn · NumPy · Pandas · Matplotlib · CNN.
- February 2023 - June 2023 **Space Exploration Lab Intern** Space Exploration Lab
University Department: Space Exploration Lab, UPC.
Background: Experimental, analytical and numerical studies that provide understanding on multiphase flows which can be used to develop new technologies for space exploration applications.
Tasks: Prepare an experiment for a suborbital flight in Blue Origin's New Shepard Spacecraft inside the NASA's Flight Opportunities Program: Improvement of design, and mechanic, electric and control systems. Realization of experimental tests to improve the software protocol.
Tools: LabVIEW · Jira · NI cDAQ · Oscilloscopes · Power Supplies · Function Generators · Function Analyzers · Power Amplifiers · CNC · Flow Pumps.
- April 2021 - currently **Head of Events** WIA-E Barcelona LG
Volunteering: Women in Aerospace Europe Barcelona Local Group.
Background: Non-for-profit organisation, committed to promoting female talent and leadership across all levels of the European aerospace sector.
Tasks: Plan and supervise schedules, estimate budgets, coordinate speakers, event manager, talk moderator.

Education

University

- September 2016 - September 2022 **Bachelor's Degree** EETAC - UPC
Focus: Aerospace Systems Engineering.
Center: Escola d'Enginyeria de Telecomunicacions i Aeroespacial de Castelldefels
- February 2023 - September 2022 **Bachelor's Final Project** EETAC - UPC
Focus: Design of a microgravity experiment for the ISS.
Center: Escola d'Enginyeria de Telecomunicacions i Aeroespacial de Castelldefels

Projects

- 2022 **Preliminary Design of an Space Station**
Space
Description: Team Lead in the SSDW held in the IRS (Stuttgart). Topics covered included mission analysis, space station and subsystem design as well as utilization aspects, systems engineering, and project management.
- 2019 **EcoGain - From an idea to an MVP**
Entrepreneurship
Description: "Explorer - Jóvenes con ideas" Competition. Development of a business model plan and an MVP about a smart garbage container able to recycle itself with AI.