Alex Quiroga Jaldín

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PROFILE

Master student in Aeronautical engineering aiming to gain work experience in the industry. Have obtained code development experience by mean of a bachelor internship and personal projects, with proven experience in Python development and machine learning. Interested in data science applied to aerospace and medical industries.

EDUCATION

Expert in Artificial Intelligence for Aerospace Engineering — Feb. 2025 –
ETSIAE, Technical University of Madrid — *Madrid, Spain*

Master of Aeronautical Engineering, Aircrafts — Sep. 2022 –
ETSIAE, Technical University of Madrid — *Madrid, Spain*

Bachelor of Aerospace Engineering, Aerospace Equipment and Materials — Sep. 2017 – Jul 2023
ETSIAE, Technical University of Madrid — *Madrid, Spain*

Excellence Baccalaureate — Sep. 2015 – May. 2017
IES EL Burgo-Ignacio Echeverría — *Las Rozas de Madrid, Spain*

EXPERIENCE

Master's Internship — Oct. 2024 – Dec. 2024
DMAIA UPM — *Madrid, Spain*

- Analysis, filtering and time-domain feature extraction from ECGs
- Arrhythmia classification with scipy, sklearn and neurokit2

Undergraduate Intership — Mar. 2021 – Aug. 2021
SRM Consulting — *Madrid, Spain*

- Research on Machine Learning alternatives to conventional photogrammetry
- Developed a desktop application with PySide for training and validation.
- Explored development tools: Deployment with Docker and FastAPI for RESTful API

TECHNICAL SKILLS

Languages: Spanish, English (C1)
Engineering Software: Arduino, Catia V5, NASTRAN
Programming Languages: Python, Matlab, Bash, HTML/CSS, SQL, C/C++, Docker

CERTIFICATIONS

English C1 — 2020
Reading and Listening — *Lisguaskill*

Harvard CS50 Introduction to Computer Science — 2025
C, Python, Data structures, Memory, Algorithms, SQL, Static pages, Web applications — *edX*

IBM Data Scientist (5 courses) — 2023
Tools, Methodology, Python for Data Science — *Coursera*

INTERESTS

Backend development
Data Science
Control systems
Machine learning
Linux-based systems