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 computer science applied to aerospace industry.

EDUCATION

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

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*

IBM Data Scientist (5/12 courses)   2023
Tools, Methodology, Python for Data Science   *Coursera*

PROJECTS

Ball Balancing Robot   2024

- Designed 3d printed parts with CATIA V5.
- Circuit design and assembly: Arduino UNO, IR sensor, servo motor, LCD display, etc.
- Extract and write a script for curve-fitting of voltage-distance manufacturer data for the sensor.
- Implemented PID control and user input capabilities from control panel such as modifiable trim distance and gain values.

INTERESTS

Backend development
Control systems
Machine learning
Linux-based systems