Alex Quiroga Jaldín

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Aeronautical engineering master's student at the Technical University of Madrid. Have obtained code development experience in future technologies by mean of an internship and personal projects. Currently looking for further deepening in data science applied to control systems.

EDUCATION

Master's degree in aeronautical engineering ⠀⠀⠀⠀⠀⠀⠀⠀⠀⠀⠀⠀⠀⠀⠀⠀Sep. 2022 –
ETSIAE, Technical University of Madrid ⠀⠀⠀⠀⠀⠀⠀⠀⠀⠀⠀⠀⠀⠀⠀⠀⠀⠀*Madrid, Spain*

Aircraft Specialty

Bachelor's degree in Aerospace Engineering ⠀⠀⠀⠀⠀⠀⠀⠀⠀⠀Sep. 2017 – Jul 2023
ETSIAE, Technical University of Madrid ⠀⠀⠀⠀⠀⠀⠀⠀⠀⠀⠀⠀⠀⠀⠀⠀⠀⠀*Madrid, Spain*

Aerospace Sciences and Technologies Specialty

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

Graduated with First Class Honours

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

PROJECTS

Arduino PID Robots | *Arduino, Catia V5* ⠀⠀⠀⠀⠀⠀⠀⠀⠀⠀⠀⠀⠀⠀⠀⠀⠀⠀2024

- Ball Balancing Robot: The controller uses distance measurements from infrared sensor and a servo motor as actuator. For user input/output integrates an LCD Display as well as multiples potentiometers.
- Self Balancing Robot: The controller uses accelerometer and gyroscope sensor to determinate attitude and stepper motors as actuators.

TECHNICAL SKILLS

Languages: Python, Matlab, C/C++, HTML/CSS, SQL
Developer Tools: Git, Docker, Matlab, VSCode, PyCharm, Eclipse
Engineering Tools: Arduino, Catia V5, NASTRAN