

Alvaro Ferrán Cifuentes

Experience

Systems Engineer, Fotokite (March 2022 - present, Zürich)

Implementing automated physical component testing with a robotic platform, installation of a simulator in CI to automatically pass test cases, and development of internal tools and general software development and code reviews.

Robotics Engineer, Space Applications (Feb 2020 - Mar 2022, Brussels)

Full-stack development (PCB, firmware, software, GUI) for space R&D projects. These include a double-ended walking robotic arm to service spacecraft, a lunar rover demonstrator and astronaut training machines.

Software/Hardware Engineer, Productize (Aug 2018 - Jun 2019, Brussels)

Developed prototypes (electronic design and firmware) for startups, such as a electric meter, a water leak detector and a cattle health monitoring system.

Embedded Software Engineer, Dekimo (Jun 2017 - Aug 2018, Brussels)

Developed real-time firmware for a high-voltage power line sensor, including a bootloader to upgrade the firmware without cutting power to the grid.

Software Engineer, Sopra Steria (Dec 2016 - Jun 2017, Madrid)

Maintained and improved C and C++ code in MVS and Unix mainframes for a large telecom company.

Software/Hardware Engineer, BQ (Sep 2014 - Aug 2016, Madrid)

All-around development of prototypes, including hardware and software, mechanical design, 3D-printing and soldering.

Projects

SeparAI [\[link\]](#)

Robotic platform to sort trash in different bins using a camera and deep learning.

MotioSuit [\[link\]](#)

Motion capture suit to send limb positions to a PC over bluetooth using IMUs.

OpenChair [\[link\]](#)

An electric wheelchair conversion kit by reverse-engineering a hoverboard.

Education

Deep Learning Specialization (2019)

Deeplearning.ai

Robotics Specialization (2018)

University of Pennsylvania online course

B.Sc. Industrial Electronics and Automation Engineering (2010-2014)

University Carlos III of Madrid



B EU/EFTA permit



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Languages

Spanish Native

English Proficient

French Proficient

Italian Elementary

Skills

Software:

- Python
- C++
- Git
- Conda
- Docker
- Linux

Robotics:

- ROS2
- MoveIt
- EtherCAT
- CANOpen

Electronics:

- KiCad EDA design
- MBed OS

Hardware:

- Logic analyzer
- Oscilloscope
- SMD soldering
- 3D printing

3D design:

- FreeCAD
- Blender