

Alvaro Ferrán Cifuentes

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About Me

I'm a maker and Industrial Electronics and Automation Engineer, interested in robotics, electronics and programming in general.

I particularly like working on complete projects: designing the hardware, soldering the PCBs, programming the firmware and designing and printing the enclosure or other mechanical parts involved.

I think the best ideas spark from interactions between teams, where a fresh view can bring a new feature to a project, but I'm just as happy working independently, setting my own milestones and finding alternative features along the way.

I am driven and self-taught, and am constantly looking out for new technologies and components to learn about and add to the toolbox.

Experience

Dekimo Experts (2017-)

Embedded SW/HW Engineer

Develop embedded software for external clients. Worked both on implementing new features from scratch and in providing support as a temporary team member.

Sopra Steria (2016-2017)

Senior C Developer

Maintain and improve C and C++ code in MVS and Unix mainframes for a large French telecom client.

BQ Robotics R&D Department (2014-2016)

Hardware and Firmware Engineer

All-around development of prototypes, including hardware, firmware, mechanical design and soldering as well as assembling and documenting the whole.

Education

University Carlos III of Madrid (2010-2014)

B.S. Industrial Electronics and Automation Engineering

University of Pennsylvania (2017-2018)

Online Robotics Specialization

I have taken a few more independent courses, the full list and the corresponding certificates can be found at <http://alvaroferran.com/courses>

Languages

Spanish Native

French Bilingual

English Bilingual

Italian Elementary

Main Skills

Programming: C, C++, Python, Git, Linux, Android

Embedded: Cortex-M, Armbian, I2C, SPI, UART, BLE, PDC

Tools: Logic Analyzer, Oscilloscope, SMD Soldering, 3D Printer

Hardware: KiCad, Eagle

3D Modelling: FreeCad, Blender

Projects

OpenChair

Project aiming to create an electric wheelchair development platform, a wheelchair that anyone can modify in hardware or software to adapt to their needs or create new control methods.

IntelliServo

Project aiming to transform regular hobby servos into smart ones by replacing their original boards.

MotioSuit

Active motion capture suit which reads data from IMUs in real time and sends them to Blender over Bluetooth. Low cost and open-source.

For a complete, more elaborate list of projects please visit <http://alvaroferran.com/projects>