

## 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, which usually lead to the next project.

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

**Sopra Steria** (2016-2017)  
Senior C Developer

**BQ Robotics R&D Department** (2014-2016)  
Hardware and Firmware Engineer

### Education

**University Carlos III of Madrid** (2010-2014)  
B.S. Industrial Electronics and Automation Engineering

**Robotics Specialization** (Finishing in April)  
University of Pennsylvania at Coursera

**Foundation course on Embedded Linux** (12/2016)

**ARM Cortex-M Bare-Metal Embedded-C Programming** (11/2016)

**Embedded Systems Programming on ARM Cortex-M3/M4 Processor** (11/2016)

**Electrical, Electronics and PCB Design Safety & Compliance** (11/2016)

### 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, 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>