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

Independent Coursework:

·**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)

·**The Ultimate Ethical Hacking Boot Camp: Beginner to Pro** (11/2016)

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

Languages

Spanish Native
French Bilingual
English Bilingual
Italian Elementary

Main Skills

Hardware: KiCad, Eagle, ARM, SMD Soldering
Programming: C, C++, Python, Git, Android
3D Modelling: FreeCad, Blender
Tools: Logic Analyzer, Oscilloscope, 3D Printer

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.

MotioGlove
Low cost and open-source motion-based robot controller board. Connects over Bluetooth and charges a one cell LiPo battery.

OmniBoard
Controller board for wheeled robots, based on the ESP8266 with three DC motors drivers, one-cell LiPo battery charger and Wifi connectivity.

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