

# Alvaro Prieto

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CONTACT e-mail: [alvaro@alvarop.com](mailto:alvaro@alvarop.com) mobile: +1 305-903-0076

SKILLS Can program in C, Objective-C, C++, Python, and Assembly.  
Proficient working with OSX, Windows, and Linux.  
Experience with various ARM Cortex-M microcontrollers (STM32F4xx, LPC17xx, NRF51822, etc.)  
Basic circuit and PCB design (EagleCAD and KiCad)  
Familiar with git, gcc, clang, gdb, Vagrant, Ansible, Flask  
Fluent in English and Spanish.

WORK EXPERIENCE

**Planet Labs**, San Francisco, CA  
*Test Development Engineer* **October 2015 – May 2016**  
Develop test fixtures and automated test software for the Dove satellite manufacturing line. Test software written in Python and C.

**Apple Inc.**, Cupertino, CA  
*Embedded Software Engineer* **August 2012 – October 2015**  
Worked with Cortex-M microcontrollers for various prototyping platforms and internal tools. Worked on iOS/OSX applications. Developed firmware interfaces to various devices using I2C, SPI, UART, USB, etc...

**Texas Instruments**, Stafford, TX  
*Embedded Software Applications Engineer* **September 2011 – July 2012**  
Worked with the C2000 family of devices. Develop automated tools to find software bugs before releases. Worked on C device drivers for various microcontrollers.

**Rochester Institute of Technology**, Rochester, NY  
*Graduate Researcher* **September 2010 – September 2011**  
Research in Body Sensor Networks. Develop novel synchronization, scheduling, and power management algorithms for BSNs. Programs written in C for TI MSP430/CC430 devices.

**Tampere University of Technology**, Tampere, Finland  
*Trainee/Researcher* **June – August 2010**  
Developed firmware/software for a hybrid low-cost GPS/GALILEO receiver. Programs written in C.

**Paul Scherrer Institute**, Villigen, Switzerland  
*Trainee/Software Engineer* **June – August 2009**  
Developed a software simulator for the Gantry 2 security system. Programs written in Qt/C++.

**RailComm**, Fairport, NY  
*Firmware Engineer* **June – November 2008**  
Wrote embedded C programs to control systems ranging from rail switch machines, train detectors, communications controllers, and rail heater controllers. Helped in developing and testing hardware prototypes.

EDUCATION **Rochester Institute of Technology**, BS/MS Electrical Engineering 2006-2011

OTHER ACTIVITIES Hobby projects documented on [alvarop.com](http://alvarop.com), and software libraries available on [github](https://github.com).  
**DEFCONBOTS Competition**, 2006, 2014, 2015