

# Alvaro Prieto

---

CONTACT	e-mail: <a href="mailto:alvaro@alvarop.com">alvaro@alvarop.com</a>	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, svn, Vagrant, Ansible, Flask, gdb Fluent in English and Spanish.	
WORK EXPERIENCE	<b>Planet Labs</b> , San Francisco, CA <i>Test Development Engineer</i> Develop test fixtures and automated test software for the Dove satellite manufacturing line. Test software written in Python and C. <b>Apple Inc.</b> , Cupertino, CA <i>Embedded Software Engineer</i> Work with Cortex-M microcontrollers for various prototyping platforms and internal tools. Worked on iOS/OSX applications. <b>Texas Instruments</b> , Stafford, TX <i>Embedded Software Applications Engineer</i> Work with the C2000 family of devices. Develop automated tools to find software bugs before releases. Work on C device drivers for various microcontrollers. <b>Rochester Institute of Technology</b> , Rochester, NY <i>Graduate Researcher</i> Research in Body Sensor Networks. Develop novel synchronization, scheduling, and power management algorithms for BSNs. Programs written in C for TI MSP430/CC430 devices. <b>Tampere University of Technology</b> , Tampere, Finland <i>Trainee/Researcher</i> Developed firmware/software for a hybrid low-cost GPS/GALILEO receiver. Programs written in C. <b>Paul Scherrer Institute</b> , Villigen, Switzerland <i>Trainee/Software Engineer</i> Developed a software simulator for the Gantry 2 security system. Programs written in Qt/C++. <b>RailComm</b> , Fairport, NY <i>Firmware Engineer</i> 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.	<b>October 2015 – May 2016</b> <b>August 2012 – October 2015</b> <b>September 2011 – July 2012</b> <b>September 2010 – September 2011</b> <b>June – August 2010</b> <b>June – August 2009</b> <b>June – November 2008</b>
EDUCATION	<b>Rochester Institute of Technology</b> , Rochester, NY <i>Master of Science in Electrical Engineering</i> <i>Bachelor of Science in Electrical Engineering</i>	<b>February 2010 – September 2011</b> <b>August 2006 – May 2011</b>
OTHER ACTIVITIES	Hobby projects documented on <a href="http://alvarop.com">alvarop.com</a> , and software libraries available on <a href="https://github.com">github</a> . <b>DEFCONBOTS Competition</b> , 2006, 2014, 2015	