Alvaro Prieto

CONTACT mobile: +1 305-903-0076 INFORMATION e-mail: alvaro@alvarop.com

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

Speak fluent English and Spanish.

WORK EXPERIENCE

Planet Labs, San Francisco, CA

Test Development Engineer

October 2015 – Present

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

Work with Cortex-M microcontrollers for various prototyping platforms and internal tools. Worked on iOS/OSX applications.

Texas Instruments, Stafford, TX

Embedded Software Applications Engineer

September 2011 - July 2012

Work with the C2000 family of devices. Develop automated tools to find software bugs before releases. Work 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, Rochester, NY

Master of Science in Electrical Engineering

February 2010 - September 2011

• Thesis: "Wireless Body Area Network Platform Utilizing Energy-Efficient Routing of Physiological Data"

Bachelor of Science in Electrical Engineering

August 2006 – May 2011

OTHER ACTIVITIES

Hobbies

Hobby projects documented on alvarop.com, and software libraries available on github.

DEFCONBOTS Competition, 2006, 2014, 2015