CHRISTOPHER LI

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QUALIFICATIONS

Languages	C/C^{++}/Objective-C · Matlab · Verilog · Python · Ruby · JavaScript · SQL · Bash
Tools	*nix Administration · Xilinx ISE · Eagle · Adobe Illustrator · Git · Subversion

WORK EXPERIENCE

OTA/Antenna Design Intern   *summer 2012*

Apple

Used Python to make a distributed, fault-tolerant framework for automating RF test equipment. Worked with an equipment vendor to develop their automation interface. Wrote data visualizer and helped centralize test data.

- Increased autonomous running time by up to 80x, increasing throughput.
- Implemented remote control and error recovery for overnight tests.

Research · Provost Fellowship   *2011–present*

USC iLab

Granted Provost Fellowship to design and manufacture components for an autonomous land vehicle. Wrote microprocessor software for low-level control. Responsible for electrical wiring of vehicle. Redesigned the lab's robotic framework user interface to be web-based.

- Reduced mechanical drift on cameras by milling a polycarbonate mount.
- Increased running time by adding automatic low-battery shutoff.

Research · Rose Hills Fellowship   *2009–present*

USC Robotics

Wrote navigation software with ROS in C^{++} and Python for an autonomous quadrotor helicopter. Designed a four-layer power distribution board in Eagle. Responsible for low-level control with an Arduino and serial communication.

- Increased organization by leading a migration to git for versioning.
- Reduced quadrotor weight by 5% with a new power distribution board.
- Placed 5th of 13 teams at the AUVSI International Aerial Robotics Competition.

EDUCATION

University of Southern California, Los Angeles   *class of 2013*

Degree

Expected B.S. Electrical Engineering (Hardware Software Emphasis) · GPA: 3.7

- USC Presidential Scholarship 2009–present
- Viterbi School of Engineering Dean's List 2009–present
- W.V.T. Rusch Engineering Honors Program 2009–present

Professional Societies

Eta Kappa Nu (HKN), Tau Beta Pi, IEEE

EXTRACURRICULARS

Nimbus	File system for CloudApp, written in using FUSE. Successfully funded through Kickstarter.
Maxel	A multi-threaded download accelerator written using Cocoa and libcurl.
Trollicons	Rage icons for the most popular IM clients. A custom rake script makes deployment and generation of packages quick and easy. Over 20,000 downloads.
SevenServers	Web-based, social S/FTP client. Written in Ruby on Rails.