

Mark L. Hill

Email	mark64@berkeley.edu	OS	Linux, FreeBSD, OpenBSD, macOS, Android, iOS
Mobile Phone	+1 (714) 788 0882	Languages	C, C++, Java, Python, Swift, Makefile
Github	github.com/mark64	Tools	git, make, vim, bash, Buildroot

Education

Aug 2017 - Pursuing B.S. in Electrical Engineering & Computer Science - *University of California, Berkeley*

Dec 2019 3.83 GPA - Relevant Coursework

- 2017 F - [CS61A](#) *Structure of Computer Programs*
- 2018 S - [CS61B](#) *Data Structures*
- 2018 S - [CS61C](#) *Computer Architecture*
- 2018 S - [CS70](#) *Discrete Math and Probability*
- 2018 S - [EE16A](#) *Linear Algebra and Circuits*

Projects

Sept 2017 - present [Space Technologies at Cal](#)
Electrical and Computer Engineer

Designed electrical systems and flight software for a 3U CubeSat
Worked on developing laser communication system and control system for small PCBSats

Technologies: Linux, C, C++, GPS, IMU, signal processing, Buildroot, git, bash, EagleCAD

Jan 2016 - July 2017 [Irvine CubeSat](#)
Avionics Team Leader

Led a team of 18 in assembling, testing, and documenting Irvine's first CubeSat: IRVINE01
Used EagleCAD to update the design of an expansion card for connecting solar arrays and propulsion systems
Created a Linux kernel module to control the expansion card and peripherals

Technologies: Linux, C, C++, Buildroot, make, git, bash, EagleCAD
Github Projects: [Peripherals Kernel Module](#), [IR01 Root System](#), [IR01 Software](#)

June 2017 - present Personal Autonomous Quadcopter

Developed drone hardware and software from scratch to learn systems development and control theory

Technologies: C, C++, make, kbuild, git, bash, EagleCAD
Github Projects: [Drone](#)

Employment History

Jul 2014 - Aug 2016 Freelance Work
iOS Software Developer

Created mobile medical applications to aid the process of diagnosis and generating visit reports

Technologies: Xcode, Swift, Objective C

Awards

Oct 2016 Eagle Scout Rank

Planned, organized, and led a team of 20 in a service project to rebuild and repaint an unsafe wooden handball wall for an elementary school

Technologies: 100^{°F} heat, water, shade