

# Mark L. Hill

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<b>Email</b>	<a href="mailto:mark64@berkeley.edu">mark64@berkeley.edu</a>	<b>OS</b>	Linux, FreeBSD, OpenBSD, macOS, Android, iOS
<b>Mobile Phone</b>	+1 (714) 788 0882	<b>Languages</b>	C, C++, Java, Python, Swift, Objective C, Bash, Makefile
<b>Linkedin</b>	<a href="#">Mark Hill</a>	<b>Tools</b>	git, make, Xcode, vim, bash, iptables, EagleCAD, Buildroot
<b>Github</b>	<a href="https://github.com/mark64">github.com/mark64</a>		

## Education

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

**May 2020** Relevant Coursework

2017 F - [CS61A](#) *Structure and Interpretation of Computer Programs*

2018 S - [CS61B](#) *Data Structures*

2018 S - [EE16A](#) *Designing Information Devices and Systems I*

## 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