

## Work Experience

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### Google

July 2016 - Present

#### Google Pixel Buds

Own continuous integration builds, branch management, and release process. Managing Jenkins configuration & integration with internal build systems.

#### Daydream VR Controller Team

Firmware engineer for low-latency highly repeatable position tracking system. Android Development, Bluetooth-Low-Energy (BLE) 4.0, and USB experience.

#### Google Platforms GPU System Software

Managed platforms introduction of NVIDIA P100 GPU. Automated GPU driver installation at scale. Developed UEFI driver module for custom PCIe device.

### Google Engineering Residency Program

July 2015 - 2016

**Waymo Firmware Residency** firmware, physical device simulation, systems programming

**Google Storage Device Emulator Residency** wrote emulator to replace costly hardware test rigs.

### Flight Software Intern at SpaceX Technologies

June-Sep 2014

- Developed Crew Dragon Audio Module.
- Audio Compression Codecs, C++ hardware driver experience

### Software Intern at Coverity

Jun - Sep 2013

- Developed tool for analyzing performance of Coverity's static analysis

### Internship with CASIT Biomedical lab @ UCLA.

April - Oct 2012

- Wrote firmware for smart prosthetic devices. Bluetooth, PIC, I2C.

## Skills

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**Professional experience** with VR, Space Exploration, Self-driving cars, and prosthetics.

**Hobbyist experience** with PCB design, SMD soldering, welding, composite layup and woodworking.

**Languages & Technologies** C++, Python, Java, Linux, FreeRTOS, STM32, Machine Learning, OpenCL, GPUs

## Education

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University of California, Los Angeles, B.S. in Computer Science

Class of 2015

## Extracurricular Activities

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### Google 20% Projects

- **Google Repair Cafe:** Organized Google's first repair cafe. ~180lbs of broken goods fixed per-event.
- **ResurrectBot:** chatbot used by over 100 teams at Google to prevent group chats from expiring.

### Neural Network Framework

- Created [machine learning framework](#) in C++. Runs on OpenCL backend for cross-platform support.

### IEEE UCLA Student Officer

Sep 2012 - June 2015

- Project Manager responsible for reviewing all club project designs, code, PCB layout, and algorithms
- Lead of NATCAR competition. Managed 40 students that designed and built several line-following robots