Jacob Sharf

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tl;dr: Professional software engineer with a strong background in firmware.

Work Experience

Google Pixel Buds — **September 2019 - Present**

- Own continuous integration builds, branch management, and release process

Google Daydream VR Controller Team — **May 2017 - Sep 2019**

- 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 — **July 2016 - 2017**

- Managed platforms introduction of NVIDIA P100 GPU
- 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

Professional experience with VR, Space Exploration, Self-driving cars, and prosthetics.
Hobbyist experience with PCB design, SMD soldering, welding, composite layup and woodworking.

Education

University of California, Los Angeles, B.S. in Computer Science — **Class of 2015**

Extracurricular Activities

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.

IEEE UCLA Project Manager — **Sep 2014 - June 2015**

- Responsible for reviewing all club project designs, code, PCB layout, and algorithms

IEEE UCLA Officer for NATCAR Competition — **Sep 2012 – May 2013**

- Managed 40 students that designed and built several line-following robots