Miles Nash

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Education

University of California, Berkeley — Dec 2025
B.S. Electrical Engineering and Computer Science — GPA: 3.7

Relevant Coursework: Microelectronics, Microfabrication, PCB Design, Electrical System Design, Data Structures, Computer Programming, Discrete Mathematics, Physics, Computer Architecture || Currently Enrolled: Embedded Systems, Digital Design (ASIC), Data Science

Professional Experience

Tesla | *Engineering Program Management Intern* — August 2023 - 2024
- Led an interdisciplinary team of 15 to design, source, test, certify, and mass produce new Tesla wireless hardware system
- Began implementing $XX million annual cost-down after coordinating system level testing and leading an executives review
- Managed DFM, prototype builds, and production line bring-up with suppliers across three continents
- Re-launched Model 3/Y Keyfob in Australia following legal stop-sale; expanded product to new markets

Hypernova Space (10 person startup) | *Engine Development Intern, Part Time* — Spring 2022
- Designed first-of-its-kind electric propulsion system from concept to first prototype CAD model for CEO
- Synthesized 10 academic papers on plasma propulsion and ran magnetic simulations on novel hall-effect thruster design

Lockheed Martin | *Software Engineering Intern* — Summer 2021
- Developed a momentum management algorithms for new commercial satellite in C and Matlab Simulink
- Worked as part of a 15 person team to integrate my code into the larger Guidance Navigation, and Controls System

Lockheed Martin | *Manufacturing Engineering Intern* — Summer 2020
- Led a nationwide team of 25+ interns to execute a virtual STEM outreach event for young students
- Applied Six Sigma methods to streamline flight hardware manufacturing and earn a perfect internal audit score

Lockheed Martin | *Electrical Systems Engineering Intern* — Summer 2019
- Aided in power system development, testing procedures, and electrical integration for JCSAT-17 thermal vacuum testing
- Reviewed PCB layouts against component documentation and corrected errors for future missions

Technical Projects

[3D Printer Host](#) (side project)
Created a hardware/software system to monitor and remotely control my 3D printer with Alexa
3rd place Tinkernut Home Automation Contest

[Scheme Interpreter](#)
Built an interpreter in Python to read and execute programs written in the scheme programming language

[Autocorrecting Typing Software](#)
Built a program with Python that measures typing speed and implements autocorrect features

[CS61CPU](#)
Designed and simulated a RISC-V CPU using digital logic
Optimized with two stage pipelining

[CS61Classify](#)
Wrote a program in RISCV assembly language to classify handwritten digits

[Robot Car](#)
Developed a voice controlled rc sized car through a semester long class. Used audio signal processing, system ID, closed loop control, and principal component analysis.

Extracurricular Leadership Experience

Cal Band | Fundraising Coordinator — Spring - Fall 2023
- Raised $100,000 in 24 hours as part of our yearly spring fundraising event
- Led a team to reach over 10,000 potential donors through Social Media and automated email marketing

ASD Independence | *Cofounder, CTO* — 2021- 2022
- [Big Ideas Finalist](#) One of 16 finalist teams among 400 participants from throughout the UC system
- Pitched, developed mockups, conducted customer research, and evaluated the technical feasibility of a stimulus altering AR device

Chatfield Robotics Club | *Cofounder and President* — 2018 - 2021
- Led team to State Championship our rookie year by raising over $7000, recruiting 30 members, and building two FTC robots
- Coordinated part orders, moderated design discussions, and mentored younger engineers and leaders

NASA HUNCH Project | *Lead Engineer* — 2021
- Designed and produced 3 iterations of a 29 part error-proof trash ejection system for future missions
- Coordinated team to deliver prototype builds ahead of major design reviews with NASA engineers. Named one of four national finalists

Skills and Interests

Interests: Engineering Leadership, Hardware/Software Integration, Embedded Systems, Product Management
Skills: Java, Python, C, Digital/Analog Circuits + Systems, Touchscreens, PCBA development, Silicon Fabrication, Project Management