

Justin Hoang

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EDUCATION

University of California, Berkeley

June 2024 - May 2026

B.S., Electrical Engineering and Computer Sciences | GPA: 4.0/4.0

Berkeley, CA

- Relevant Coursework: CS61A, EECS16A

De Anza College

May 2024

Electrical Engineering | GPA: 4.0/4.0

Cupertino, CA

- Relevant Coursework: Circuit analysis, Data structures in C++, Assembly for x86 Processors

WORK/LEADERSHIP EXPERIENCE

Electrical Engineer

Aug. 2024 – Present

Formula Electric at Berkeley

- Developed schematics and PCB layouts within Altium Designer for FSAE electric racing vehicle
- Designed battery management system, extensively testing implementations whilst remaining in compliance with FSAE requirements

Secretary

Jan. 2024 – Jun. 2024

De Anza Competitive Programming

Cupertino, CA

- Created and held weekly practice coding contests and mock technical interviews, utilizing services including Leetcode, Codeforces, and CSES
- Hosted and led weekly workshops for beginner club members, creating and providing slideshows and resources for optimization in C++, Java, and Python

San Jose City College

Jan. 2024 – Jun. 2024

Peer Tutor

San Jose, CA

- Provided tutoring services in both physics and math series, covering electromagnetism, circuits, and calculus.
- Created and continuously improved study plans and methods to facilitate efficient mentoring.

ADDITIONAL EXPERIENCE

Karaoke Video Generator

- Utilized Python and ffmpeg to render over 100 karaoke videos with shaders
- Implemented automatic audio input into an AI to systematically remove lead vocals from song files whilst
- Automated video uploads to Youtube

2023 ACM ICPC PacNW Silver Medalist

- California Silver Medal - Placed 2nd/32 California Teams in the International Collegiate Programming Contest.
- Placed 7th/70 teams in all of the Pacific Northwest Region.

DC Buck Converter

- Designed custom PCB design with KiCad, verifying circuit design with SPICE simulation
- Created multivoltage regulator similar to Texas Instruments TPS62932
- Repurposed the converter into a rudimentary CV 5V battery charger to power an Arduino

CERTIFICATIONS, SKILLS & INTERESTS

- **Skills/Languages:** C++, C, Java, JavaScript, x86 (MASM), Python, LTspice, , SQL