

PHILLIP LEWIS WANG

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EDUCATION

UNIVERSITY OF CALIFORNIA, BERKELEY

Aug 2024 - PRESENT
3.83 GPA

- B.S. in Electrical Engineering & Computer Science (EECS)
- *Regents' and Chancellor's Scholar*

UNIVERSITY OF CALIFORNIA, IRVINE

Sept 2022 - Jun 2024

- B.S. in Electrical Engineering | *Specialization in Semiconductors and Optoelectronics*
 - Relevant Coursework:* Engineering Probability, Signals and Systems, Network Analysis, Advanced C Programming, Structure and Interpretation of Computer Programs, Data Structures and Algorithms, Computer Architecture, Microfabrication Technology
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PROJECT & WORK EXPERIENCE

Electrical and Computer Engineering Intern, XCMR

Jun 2025 - Aug 2025

- Led hardware development for ultraviolet/VUV-based device aimed at improving pathogen detection and health security in hospitals
 - Selected components, designed schematic and developed bill of materials; validated circuits in LTspice; designed a 4-layer low-speed PCB in KiCad 9.0 integrating a power supply, ADC, photocoupler, photodiodes, and transimpedance amplifiers.
 - Strategically placed decoupling capacitors and separated analog/digital domains to minimize coupling and EMI.

Avionics Engineer, UCI Rocket Project (Solids)

Jul 2023 - Jun 2024

- Developed and tested RF circuits and systems needed to launch at 10,000ft, recover rocket and record telemetry data
 - Designed PCB for a central control unit that integrated sensors (accelerometer, barometer, temperature, magnetometer), microcontroller, MOSFETs, and electric matches to deploy drogue and main parachutes.
 - Optimized signal integrity by minimizing trace intersections and reducing noise coupling

E-SONIC (Engineering Symphonic Orchestra New Instrument Competition)

Nov 2023 - Jun 2024

- Fabricated and coded an EEG-controlled synthesizer that detects specific brainwave thresholds to evoke music chords using an OpenBCI repository. Received \$2,000 funding in college-wide competition.

Chem-E Car, Electrical Lead

Sep 2022 - Jun 2024

- Led electrical sub-team to fabricate and program an embedded system that connected chemical and mechanical components. Powered by a self-created lead-acid battery that detected iodine clock reaction to stop the car.
 - Utilized Light Dependent Resistors, MOSFETs, H-Bridge Integrated Circuit, Servos, Linear Actuator, Motors
 - Won **1st place** in Western Regionals Competition April 2024 out of all California and Arizona colleges
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LEADERSHIP

Secretary, OPS (Open Project Space) Member — IEEE@UCI

Apr 2023 - Jun 2024

- *Secretary* — Facilitate weekly meetings, communicate with 100+ faculty and IEEE members, expand organization's presence
- *OPS* — Completed embedded system projects such as Weather Station, 555 Timer Piano, and "iPoduino" using integrated circuits, breadboarding, soldering, microcontrollers, C++, PCB design, and serial communication protocols (SPI, I2C, UART).

Concertmaster (Violinist) — California All-State Honor Orchestra, UCI Symphony Orchestra

Dec 2020 - Jun 2023

AWARDS

- Regents' and Chancellor's Scholarship, Dean's Honor List, 1st Place Chem-E Car Western Regionals 2024, Presidential Volunteer Service Award, National School Orchestra Award
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AFFILIATIONS

- Eta Kappa Nu (Mu Chapter), IEEE, AIAA, UCI Chem-E Car, UCI Rocket Project, Lee Nano-Optics Research Lab, UCB Symphony Orchestra, UCI Symphonic Orchestra (Concertmaster), UCI Club Volleyball
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SKILLS & HOBBIES

Equipment Experience: Oscilloscope, Spectrum Analyzer, Signal Generator, Soldering, Power Supply, Multimeter

Programming Languages: C, C++, Java, Python, VHDL, Scheme, SQL

Simulation/Design: LTSpice, Ansys Lumerical, SOLIDWORKS, PCBA Design (KiCad, Altium), Vivado