

BAILUN(ALEX) WU

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Education

University of California, Los Angeles (UCLA)

Los Angeles, CA

---B.S., Electrical Engineering

(Sept 2022 - Dec 2024)

- GPA: 3.73
- Honor: Dean's List (Good Standing)

Technical Skills

Programming Language: Matlab; Python; C/C++; HTML; Github; CSS; R Script; Linux; Java

Prototyping: Experienced with Arduino; Oscilloscope; Function Generator; Multimeter; Microcontroller.

Software: Advanced in Microsoft Excel, Office & PowerPoint.

Multilingual: Fluent in English, Mandarin & Cantonese.

Course: Advanced Circuit Analysis; System and Signal; Principles of Feedback Control; Data Structures and Algorithms; Data Science; Machine Learning; Electromagnetism; Principles of Power System.

Work Experience

UVFAB Systems, Inc.

Remote, United States

---Electrical Engineering Intern

(Mar 2024 - Present)

- Cable & Harness designing for AC modules/capital equipment / Sensors / Temp Controllers, digital timers, etc.
- Design electrical/electronic engineering assemblies, layouts/schematics and detailed drawings
- Preparing engineering specification documents, Test specifications and interface with other teams
- Coordinate the procurement and assembly of electrical/electronic components/equipment
- Perform engineering analysis on component failures and interact with vendors for resolution

C2 Education

San Francisco, CA

---Mathematics Tutor

(Jun 2022 - Sept 2022)

- Tutoring over high school level math topics.
- focusing on test preparation for the math section.
- guiding and assisting students with math homework.

Engineering Projects

Micromouse

Los Angeles, CA

---UCLA IEEE Project

(Oct 2022 - Sep 2023)

- Build a maze solving robot from scratch.
- PCB design and CAD Application.
- Program complex microcontrollers.
- Algorithm Implementation to solve the Maze

Path Following Robot Car

Los Angeles, CA

---ECE3 Project

(Oct 2022 - Dec 2022)

- Utilized the TI Robotics System Learning Kit to implement PID controls on a robotic car achieving 8.3 seconds on a 3.4 meter track.
- Developed code utilizing real-time phototransistor data to send updated movements to the car as a closed-loop feedback system.

Electrocardiogram

Los Angeles, CA

--- ENGR 96E

(Jan 2023 - Mar 2023)

- Use concepts and techniques in electrical circuit design and analysis, cardiac electrophysiology, biophysics, microcontrollers, and computer programming.
- Work in teams to design, construct, and test circuit boards capable of measuring human electrocardiograms by capturing data with microcontroller, with computer analysis and display.

Solar Powered Vehicle

Los Angeles, CA

---UCLA IEEE Project

(Oct 2023 - Present)

- Power system optimization with circuit analysis of the embedded circuit components (Passive circuit components).
- PCB Design and Solar Panel Application.
- Signal Processing for control system implementation
- Power factor Correction