

## Ryan Kim

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### Education

#### University of California, Los Angeles

Electrical Engineering B.S.—1st Year (3.9 GPA)

June 2028

### Experience

#### YearbookPro

Remote

#### Web Development Engineer

February 2025 – Present

- Startup focused on distributing yearbooks digitally as a SaaS
- UI/UX design and component design of frontend with SvelteKit for routing and Tailwind for design
- API and features integration using TypeScript and Svelte

#### Bruin Supermileage

Los Angeles, CA

#### Electrical Subteam

February 2025 – Present

- Assemble, solder and program PCB to compute power consumption of low voltage circuit of racecar
- Analyze circuit schematic on KiCad and research RP2040 datasheets to determine correct pinouts and Arduino program logic to monitor power computation

#### X1 Robotics @ ASME UCLA

Los Angeles, CA

#### Power Systems Lead

October 2024 – Present

- Compute power requirements, manage part selection, and manual assembly for 12-motor circuit built into chassis of our quadruped robot, the Bruin Bear
- Communicate with other subteam leads to determine spacing and weight restrictions of circuit
- Lead weekly subteam meetings to ensure project timeliness and assign project tasks to team members, leading to successfully walking Bruin Bear

### Projects

#### I2BL @ UCLA Ferrobotics Group

Los Angeles, CA

#### Software & Hardware Research Intern

March 2025 – Present

- Implement websocket-based collaboration environment for React-based ferrofluid control interface
- Solder and test electromagnet grid PCB used to control motion of ferrofluid

#### IEEE @ UCLA

Los Angeles, CA

#### OPS Member

October 2024 – Present

- Built Tic-Tac-Toe game using Arduino, OLED and joystick controller connected over UART
- Make several other projects throughout the year involving circuit diagram analysis and breadboarding

### Leadership and Activities

#### PioneerHacks

Sunnyvale, CA

#### Head Organizer (2024), Head of Technology (2022-2023)

March 2022 – May 2024

- Grew PioneerHacks V as Head Organizer by ~100% to 170+ participants and 40+ teams (compared to PHIV year-over-year)
- Work with companies such as Juniper Networks for event logistics at Aspiration Dome; involve sponsorship coordination, judge/mentor outreach, event promotion, budgeting and team leadership
- Developed hackathon PioneerHacks promotional website; manage Devpost page, hacker resources, and project verification; create judging algorithm/tableau and coordinate remote infrastructure

### Skills

**Fullstack** HTML/CSS, TypeScript, Bootstrap, Tailwind, nodeJS, Express, React, Astro, Svelte(Kit), Firebase

**Software** C, C++, Python, Java, git, command line

**Hardware** Arduino programming, breadboard, circuit design, circuit analysis, circuit testing, oscilloscopes

**Relevant Coursework** Digital Logic Design, Assembly & Operating Systems, Circuits & EE Lab, Object Oriented Programming, Data Structures & Algorithms, Physics of Waves/Electricity/Magnetism/Optics

**Misc** DaVinci Resolve, Korean and Chinese language