

## Ryan Kim

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### Education

#### University of California, Los Angeles

Los Angeles, CA

Electrical Engineering B.S.—1st Year

June 2028

Relevant Coursework: CS31, CS32, Physics 1B, (projected after Summer: EE 3, Physics 1C, CS33, CS M51A)

### Skills

**Fullstack** HTML, CSS, Bootstrap, Tailwind, JS, nodeJS, Express, ejs, React, next.js, Astro, Svelte, vercel, Railway, Flask, Firebase | **Software (generic)** C++, Python, Java, git, GitHub, command line | **Hardware** Arduino programming, breadboard, circuit design, circuit analysis | **Other** DaVinci Resolve, Markdown, Korean and Chinese language

### Experience

#### Bruin Supermileage

Los Angeles, CA

##### Electrical Subteam

February 2025 – Present

- Design, assemble and solder PCB; circuit schematic and analysis on KiCad
- Program and test onboard Raspberry Pi using Arduino

#### X1 Robotics @ ASME UCLA

Los Angeles, CA

##### Power Systems Lead

October 2024 – Present

- Design and assemble all circuits, wiring and electrical components for Bruin Bear robot
- CAD, compute power requirements, wiring diagrams, build and integrate circuit into bear chassis and ensure smooth operation of bear sensors, onboard microcontroller and leg motors with inter-team communication

### Leadership and Activities

#### United States Fencing Association

Colorado Springs, CO

##### R1-rated Referee

June 2019 – Present

- Officiate and manage tournaments of 1000+ people, including tournaments on a national level
- Work with large teams of up to 60+ other referees to ensure a smooth tournament experience for competitors and attendees
- Assertively resolve confusion and conflict with tournament participants, coaches and parents
- Mentor inexperienced referees to promote growth of fencing as a sport

#### 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

#### Tinovation @ Cupertino High School

Cupertino, CA

##### President (2024), Web Development Mentor (2022-23)

August 2021 – May 2024

- Biggest software club at school, 50+ members per year, 7+ years of continuous operation
- Teach web development (HTML, CSS, JS, node) as mentor; expand scope as President to include lessons also covering AI/ML, git, databases
- Led team to build several applications every year using technologies including web, UI/UX, servers, databases, authentication—best are showcased on tinovation.org