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 (in progress: 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 IDE

X1 Robotics @ ASME UCLA   Los Angeles, CA
Power Systems Lead   October 2024 – Present
- CAD, compute power requirements, create wiring diagrams, assemble and integrate circuit into bear chassis; wire sensors, onboard microcontroller and leg motors together
- Communicate with members within power team and leads of other teams to ensure development of Bruin Bear

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