

# Aven Li

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## EDUCATION

**Cornell University**, College of Engineering, Ithaca, NY

*Expected May 2029*

Bachelor of Science, Mechanical Engineering

**Currently Enrolled:** Statics and Mechanics of Solids, Differential Equations for Engineers

**Relevant Courses:** Multivariable Calculus for Engineers, Mechanics and Heat, Electromagnetism

**The Harker School**, San Jose, CA, GPA: 4.0, SAT: 1590

*May 2025*

**Relevant Courses:** AP Physics C E+M & Mechanics, AP Physics 2, AP Calculus BC, AP Chemistry, Electronics

## TECHNICAL SKILLS

Onshape CAD, Java, Visual Studio Code, Bambu Lab, Google Suite, Microsoft Office, Adobe Creative Cloud, Mechanical Assembly, Aluminum and Polycarbonate Machining, Omron TM Flow, Universal Robotics

## TECHNICAL EXPERIENCE

**College Kickstart**, Palo Alto, CA, **Data Science Intern**

*June-Aug 2025*

- Implemented interactive data visualization chart with HTML/JS/CSS for standardized test scores and other admissions data for high school counselors across the country with a 58% open rate on newsletters.
- Verified and analyzed 20K+ data points across 750 colleges, improving dataset reliability for 4K+ readers.
- Investigated and authored a blog about the top 30+ schools cultivating diversity, amassing 17K+ views on blog.

**Analog Devices Inc.**, Beaverton, OR, **High School Mechatronics Intern**

*June-Aug 2024*

- Designed and 3D-printed end effector with Onshape and Bambu Lab to automate semiconductor pod transport.
- Engineered Universal Robotics arm 7th axis frame, increasing arm reach from 6' to 9' and enhancing its mobility.
- Programmed end effector on an Omron TM Cobot, achieving consistent pod-to-machine cycle time of ~1.3 min.
- Validated end effector design performance through iterative strength testing with PLA-CF material and optimized geometry to withstand over 80,000 pick-place cycles, ensuring durability and minimal friction.
- Supported on-site team in machining and assembling 6 tool-tending robotic systems for semiconductor FAB.

**Harker FIRST Robotics 1072**, San Jose, CA, **Machining and Mechanical Lead**

*Aug 2021-May 2025*

- Led fabrication and assembly of 3+ new mechanical subsystems and integrated electrical and software systems.
- Collaborated with the design/CAD subteam for yearly challenge and iteratively optimized design.
- Directed a team of 10+ members to accomplish build goals, coordinating daily agendas and seasonal timeline.
- Trained 15+ members on aluminum and polycarbonate machining with manual and CNC equipment.
- Awarded FIRST Robotics Regional Finalist twice: in 2025 (out of 42 teams) and in 2024 (out of 38 teams).

## LEADERSHIP EXPERIENCE

**Talon Yearbook**, The Harker School, **Co-Editor-In-Chief**

*Aug 2021-May 2025*

- Spearheaded end-to-end development of a 250+ page publication from initial conceptualization to final design.
- Led, trained, and motivated a team of 20+ members through facilitating meetings 2-3 times a week and maintaining internal calendars and spreadsheets to ensure on-time completion of project milestones.
- Coordinated photography and interview coverage of 100+ school-wide events to document the academic year.

**Art Club**, The Harker School, **Co-President**

*May 2022-May 2025*

- Directed and created agendas for monthly leadership meetings, dividing tasks among 10 leadership members.
- Planned biweekly events for 115+ students and supervised the schedule of annual Artist-in-Residency.
- Organized fundraisers selling custom-designed stickers and raised \$850+ for international relief efforts.

## VOLUNTEER EXPERIENCE

**Phoenix Volleyball**, San Jose, CA, **Coach**

*Jan 2024-Aug 2025*

**FIRST Lego League**, The Harker School, **Volunteer Student Mentor**

*Aug 2021-Dec 2024*

**Chinese Wisdom Culture and Education Organization**, **Volunteer Teacher's Assistant**

*June 2022, June 2024*