

Shannon Wu

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EDUCATION

Homestead High School

Valedictorian

Cupertino, CA

August 2022 – June 2026

De Anza College

Dual enrollment student

Cupertino, CA

September 2025 – June 2026

University of California, Irvine

Bachelor of Science in Mechanical Engineering

Irvine, CA

September 2026 – June 2030

Honors & Awards: Degree of Honor (National Speech and Debate Association), Recipient of the \$1000 Medici Grant

EXPERIENCES

Botrista, Inc.

Engineering Intern

Taipei, TW

August 2026

- Assist with mechanical component design discussions
- Provide support for system testing and verification
- Learned to write firmware from scratch on an STM32 board

Homestead Robotics Team - FRC Team 670

Hardware Design & Fabrication Lead

Cupertino, CA

August 2022 – May 2026

- Created & taught engaging lesson plans for 20+ incoming members for both design and fabrication workshops to make the subteams more approachable for new people
- Directed overall robot architecture and design team for the 2026 season, rallied team from 16th place from 1st competition to 2nd place at the second competition through adapting team management methods

MIT City Science Lab @ Taipei Tech

Summer Intern

Taipei, TW

July 2025 – August 2025

- Engineered spider leg-inspired actuation prototypes, creating 3D printed components and CAD files for soft robotics research
- Fostered collaboration by connecting peers from Taiwan and the US to enhance a welcoming team environment

Advancement Via Individual Determination (AVID) Program

Tutor for the Class of 2026

Cupertino, CA

August 2024 – May 2026

- Motivated students to achieve academic potential by tutoring 20+ students in Algebra 2, Precalculus, and physics subjects

Grassroots Ecology

Youth Steward

Cupertino, CA

January 2023 – April 2026

- Spent 90+ hours restoring McClellan Ranch Preserve through phytoremediation methods like planting native plants and willow staking to stabilize stream banks
- Devised capstone projects relating to the environment like a model of a bird friendly skyscraper

PROJECTS

Pomelo fruit inspired noise absorber

January 2024 – Ongoing

- Designed biomimetic soundproof absorbers for windows inspired by the peel of a pomelo fruit

SKILLS

Hardware: Onshape/Fusion 360, Arduino/STM32 firmware CNC router, Bridgeport mill, Southbend lathe

Software: QGIS, MATLAB

Language: Fluent in English & Mandarin