

Shannon Wu

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EDUCATION

University of California, Irvine
B.S. Mechanical Engineering

Irvine, CA
September 2026 – June 2030

Honors & Awards: Recipient of the \$1000 Medici Grant

EXPERIENCES

Botrista, Inc.

Taipei, TW

Engineering Intern

August 2026

- Assisted with mechanical component design discussion with water heater add-on
- Wrote firmware from scratch on an STM32 board to control drink-machine motor pump timing/speed

Homestead Robotics Team - FRC Team 670

Cupertino, CA

Hardware Design & Fabrication Lead

August 2022 – May 2026

- Led design on mechanism to lift a 115-lbs robot 3 inches off the ground for at least 3 seconds
- Operated on the CNC router, lathe, and mill to manufacture complex parts like a three degree-of-freedom robotic arm and steel inserts for a 4-inch aluminum tube
- Advocated and led efforts to conduct more rapid prototyping of ideas early in the season to back up design choices with real evidence
- 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 University

Taipei, TW

Summer Intern

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

Grassroots Ecology

Cupertino, CA

Youth Steward

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 using Onshape and MATLAB

SKILLS

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

Embedded/Firmware: STM32, Arduino, C/C++

Software: QGIS, MATLAB