

Ty Schultz

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EDUCATION

University of California, Berkeley

B.S. Mechanical Engineering, GPA: 3.62

August 2022 – December 2024

Berkeley, CA

Work Experience

Research and Development Intern

Genius Traffic System Company Limited

May 2023 – July 2023

Bangkok, Thailand

- Designed PCBs for traffic lights, surge protectors, and CPU testers using Altium Designer to reduce costs by 80% through in-house manufacturing
- Contributed to rapid prototyping, testing, and iteration of PCBs with hands-on soldering and electrical diagnostics
- Collaborated with a multicultural engineering team to update legacy products for modern traffic systems

Server

Siam Nara Thai Cuisine

March 2019 – July 2022

San Diego, CA

- Acted as liaison between Thai-speaking staff and English-speaking customers to improve service experience
- Trained new employees on policies and best practices, enhancing team efficiency
- Developed multitasking and communication skills in a fast-paced, team-oriented environment

PROJECTS

MECENG 110 (Intro to Product Development)

UC Berkeley College of Engineering

January 2023 – May 2023

Berkeley, CA

- Designed a temperature-sensitive koi fish feeder using SOLIDWORKS, integrating a thermocouple to prevent overfeeding in cold temperatures
- Led the design and fabrication of customizable panels using laser cutting and 3D printing
- Programmed a system in Python to allow users to set feeding times, food volume, and temperature thresholds

Transfer Pre-Engineering Program (T-PREP)

UC Berkeley College of Engineering

July 2022 – August 2022

Berkeley, CA

- Developed an emergency braking system for electric skateboards through stakeholder research and prototyping at the Jacobs Institute
- Directed a team of six from ideation through fabrication; placed 2nd out of 32 teams in a product pitch competition judged by faculty and industry professionals
- Delivered functional prototypes under tight time constraints using user feedback

Volunteering

Student and Performer

Wat Buddhajakramongkolratanaram

August 2016 – June 2019

Escondido, CA

- Taught traditional Thai music and bass guitar to students aged 8–15
- Performed traditional Thai dance and music at cultural festivals and community events

SKILLS

Software: SOLIDWORKS, Creo, Altium Designer, MATLAB, COMSOL, AutoCAD, MS Excel

Fabrication: 3D Printing, Laser Cutting, Lathe, Mill

Languages: English (fluent), Thai (fluent), Japanese (conversational)