

# Ty Schultz

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## EDUCATION

**University of California, Berkeley**

*B.S. Mechanical Engineering, GPA: 3.62*

**August 2022 – December 2024**

*Berkeley, CA*

## SKILLS

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

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

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

## Work Experience

**Research and Development Intern**

**May 2023 – July 2023**

*Genius Traffic System Company Limited*

*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**

**March 2019 – July 2022**

*Siam Nara Thai Cuisine*

*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)**

**January 2023 – May 2023**

*UC Berkeley College of Engineering*

*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)**

**July 2022 – August 2022**

*UC Berkeley College of Engineering*

*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**

**August 2016 – June 2019**

*Wat Buddhajakramongkolratanaram*

*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