

# 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:** MATLAB, AutoCAD, SOLIDWORKS, Creo, Altium Designer, MS Office

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

**Language:** Fluent in Thai and English

## PROJECTS

**MECENG 110 (Intro to Product Development)**

**January 2023 – May 2023**

*UC Berkeley College of Engineering*

*Berkeley, CA*

- Designed an automatic koi fish feeder using a thermocouple to account for slowing metabolism in colder temperatures
- Created electrical hardware models in SOLIDWORKS for dimensional tolerancing and clearances
- Developed communication and collaboration skills in a fast-paced, team-oriented environment

**Transfer Pre-Engineering Program (T-PREP)**

**July 2022 – August 2022**

*UC Berkeley College of Engineering*

*Berkeley, CA*

- Designed and implemented an E-brake system for skateboards in the Jacob's Institute for Design Innovation under UC Berkeley Professor Scott Moura
- Conducted stakeholder interviews and competitor analysis, implemented a project timeline, and directed a team of 6 from ideation of features to prototype fabrication
- Pitched prototype to industry and faculty leaders, placing second among 32 groups

## Work Experience

**Research and Development Intern**

**May 2023 – July 2023**

*Genius Traffic System Company Limited*

*Bangkok, Thailand*

- Developed PCB designing skills using Altium Designer while coordinating through Thai and English
- Designed a traffic light, surge protector, and CPU tester PCB to save costs for the company on third-party products by 80%
- Applied soldering and electrical skills for rapid prototyping and testing of PCBs

**Server**

**March 2019 – July 2022**

*Siam Nara Thai Cuisine*

*San Diego, CA*

- Facilitated communication between Thai speaking staff and English speaking customers
- Trained and familiarized new employees with company policies and procedures for full time server positions
- Developed multitasking and communication skills for efficient workflow with colleagues to improve customer satisfaction

## Volunteering

**Student and Performer**

**August 2016 – June 2019**

*Wat Buddhajakramongkolratanaram*

*Escondido, CA*

- Conducted music lessons for students ages 8 to 15 learning bass guitar and traditional Thai instruments
- Performed traditional Thai dance and music for community exposure at cultural festivals and Thai holidays