

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 Excel

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

Languages: English, Thai, Japanese

Work Experience

Research and Development Intern

Genius Traffic System Company Limited

May 2023 – July 2023

Bangkok, Thailand

- Developed PCB designing skills using Altium Designer with a multi-cultural team
- Designed a traffic light, surge protector, and CPU tester PCB to save 80% in product costs on third-party products through in-house manufacturing
- Applied soldering and electrical skills for rapid prototyping and testing of PCBs

Server

Siam Nara Thai Cuisine

March 2019 – July 2022

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

PROJECTS

MECENG 110 (Intro to Product Development)

UC Berkeley College of Engineering

January 2023 – May 2023

Berkeley, CA

- Designed an automatic, temperature measuring koi fish feeder to account for slow koi fish metabolism in colder temperatures
- Created electrical hardware models in SOLIDWORKS for dimensional tolerancing and clearances
- Developed laser cutting and 3D printing skills for fabrication and rapid prototyping

Transfer Pre-Engineering Program (T-PREP)

UC Berkeley College of Engineering

July 2022 – August 2022

Berkeley, CA

- Designed and implemented an E-brake system for skateboards in the Jacob's Institute for Design Innovation
- 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 teams of Berkeley Engineering students in a competition for innovative products

Volunteering

Student and Performer

Wat Buddhajakramongkolratanaram

August 2016 – June 2019

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