Ty Schultz

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EDUCATION

University of California, Berkeley **August 2022 – December 2024**
B.S. Mechanical Engineering, GPA: 3.62 *Berkeley, CA*

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

ENGIN 29 (Manufacturing and Design Communication) **January 2023 – May 2023**
UC Berkeley College of Engineering *Berkeley, CA*

- Designed and fabricated an ergonomic, collapsible laptop stand addressing portability, adjustability, and load-bearing needs for various smart devices
- Refined 3D models using SOLIDWORKS, integrating a cross-link mechanism for foldability
- Oversaw precision fabrication using university waterjet and 3D printers, ensuring high dimensional accuracy

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
- Delivered functional prototypes under tight time constraints using user feedback, placing 2nd out of 32 teams in a product pitch competition judged by faculty and industry professionals

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)