

Serena Wee

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EDUCATION

UC Berkeley — B.S in Mechanical Engineering

December 2024

RELEVANT EXPERIENCE

Gradient Comfort — San Francisco, California

June 2024 – August 2024

MECHANICAL TEST ENGINEER INTERN

- Executed over 15 verification and validation test on new Gradient All Weather 120 unit
- Compiled test procedure and created detailed documentation for each test conducted
- Design test stand for component reliability testing

SAE Aerospace Club — UC Berkeley

August 2021 – May 2025

CFD LEAD AND LANDING GEAR DESIGNER

- Create 3D models of aircraft frames, laser cut spare parts, use Ansys to create a simulation of 3D model flow
- Constant bridging of communication between teams regarding club projects, aircraft frames and wing design
- Prototype retractable carbon fiber material front landing gear using Solidwork and Markforged X7 3D Printer
- Perform structural testing on carbon fiber front landing gear to ensure durability and structural stability

College Track — San Francisco, California

September 2020 – Present

APPLE IT TECHNOLOGIST

- Provide IT support to high school students and staff who are using MacBooks, iPads, and Chromebooks
- Facilitate Apple Bridge and Bytes workshops twice a week using Swift coding language
- Establish managed device profiles for 100+ students' MacBooks and Chromebooks every semester

PROJECTS

Experimentation and Measurement Design - Simon Shows Response Time Game

August 2024 - December 2024

- Developed a 4-button reaction time test utilizing color and text stimuli to evaluate participants average response times
- Analyzed data from 30 participants to assess the correlation between reaction time and amount of sleep, comparing results to national average to identify trends

Indoor Perf Design and Drop test

July 2024 – August 2024

- Utilized SolidWorks to design hexagon-shaped perf to maximise airflow from unit to surrounding
- Tested maximum drop height of metal indoor perf without major deformation of structure

Mechatronics Design - The Buggy Cart

September 2023 – November 2023

- Designed a small autonomous cart that navigates around obstacles using 4 different sensors
- Partnered with an electrical engineer/computer science major to code the cart into using the feedback from sensors to provide power to the motor

OTHER EXPERIENCE

Berkeley Student Cooperative — Berkeley, California

January 2023 – January 2025

WORKSHIFT MANAGER (08/24 - 01/25)

- Provide training for 56 house members regarding how to complete workshift and rules regarding cookshift
- Create and maintain permanent workshift for 56 house members while keeping track of missed shift

MAINTENANCE MANAGER/HABITABILITY COORDINATOR (11/23 - 05/24)

- Fixed furniture, doors, and windows for a house of 22 members
- Oversaw maintenance work performed around the house and inspect all fire safety equipment every month

NETWORK MANAGER (01/23 - 08/23)

- Ensured network stability for over 60 devices and fixed any down access points
- Teach workshop regarding cybersecurity and importance of privacy on the internet

SKILLS

Technical: SolidWorks, Fusion360, onShape, Laser cutting, Markforged x7, Form 3, Fortus 380mc, Objet 350, Apple products, Google Apps, Zoom, network printing, Canva, Microsoft office products, Zendesk ticketing
Python, JavaScript, MatLab, Arduino, Mirco-python, Swift