

EDUCATION

- | | |
|--|-------------------|
| • University of California, Santa Barbara | 10/2020 - 06/2024 |
| BS in Mechanical Engineering | GPA: 3.74/4.0 |

WORK EXPERIENCE

- | | |
|--|-------------------|
| • FoodTools | 07/2024 - Present |
| Jr. Mechanical Design Engineer | Santa Barbara, CA |
| <ul style="list-style-type: none">– Full-time commitment of 40 hours per week– Designed and developed custom parts for food portioning machines in SolidWorks– Utilized Fusion 360 Manufacturing to improve the machining process of intricate parts– Drafted and updated engineering drawings in SolidWorks– Assisted assembly team in assembling electrical panels, pneumatic control systems, and machinery– Developed graphical user interfaces (GUIs) with Python to streamline workflow | |
| • Introba | 12/2023 - 06/2024 |
| New Technologies Research Intern | Santa Barbara, CA |
| <ul style="list-style-type: none">– Part-time commitment of 10 hours per week– Worked in an interdisciplinary team of engineers and environmental equity experts to develop the UCSB Clean Energy Master Plan– Researched energy storage technologies and HVAC systems that were to be implemented in a central utility plant– Utilized Microsoft Excel to create calculators that modeled the energy usage of buildings around the UCSB campus– Designed a seawater heat exchange system in SolidWorks | |
| • UCSB Mechanical Engineering Machine Shop | 12/2022 - 12/2023 |
| ME12s Remedial Tutor | Santa Barbara, CA |
| <ul style="list-style-type: none">– Supervised 8 students twice per week in the Mechanical Engineering Machine Shop– Taught students how to use manual lathes, CNC mills, drill presses, measurement tools, and other shop-related equipment– Guided students in the fabrication of parts for a compressed air motor | |
| • Meissner | 06/2023 - 09/2023 |
| Research and Development Intern | Camarillo, CA |
| <ul style="list-style-type: none">– Full-time commitment of 40 hours per week– Conducted research focused on the characterization of membranes with varying porosities– Developed test methods for the porosity of membranes in the beta phase of development– Designed and machined laboratory equipment using manual mills and lathes– Performed dynamic mechanical analysis using a rheometer to determine the effects of solvents on mechanical properties of epoxies– Completed formal documentation, technical reports, and presentations to share results and data | |

PROJECTS

- | | |
|---|-------------------|
| • Senior Capstone Project | 09/2023 - 06/2024 |
| Student | Santa Barbara, CA |
| <ul style="list-style-type: none">– Worked in a team of 6 to design a vehicle to be used as a physical therapy device for young children with cerebral palsy or other severe motor impairments– Integrated brushless DC motors, Arduino microcontroller, and other electrical components into a mechanical system– Designed and modeled multiple components for the device using SolidWorks– Utilized finite element analysis to evaluate mechanical components of the system under various loads– Fabricated major mechanical components using a variety of techniques including manual milling, water jetting, and 3D printing– Conducted various types of testing to ensure design specifications had been met, including load tests, speed tests, and live testing with children– Winner of the Distinguished Technical Achievement in Mechanical Engineering award | |

TECHNICAL SKILLS AND INTERESTS

Skills: MATLAB, SolidWorks, Igor, COMSOL, Python, CAM, Microsoft Office, C++
Areas of Interest: Materials, Design, Mechatronics, Automation, Robotics