

Cynthia Guzman

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EDUCATION

B.S. Mechanical Engineering with a Specialization in Controls and Robotics - University of California, San Diego
3.79 GPA

Notable Achievements: ACES Scholar | NACME Scholar | HSF Scholar

EXPERIENCE

Manufacturing Engineering Intern - *Tandem Diabetes Care*, San Diego, CA

May 2024 - Aug 2024

- Investigated potential modes of failure for two automatic assembly lines
- Performed root cause analysis for failures at specific assembly line stations and explored potential solutions to enhance efficiency and performance
- Revised engineering drawings and performed testing procedures for product verification including Performance Qualifications (PQs) and Operational Qualifications (OQs)

Entertainment Team Associate - *Walmart*, Oceanside, CA

Aug 2023 - May 2024

- Communicated effectively with colleagues and management to address customer needs and concerns
- Worked collaboratively with a team to achieve daily and monthly store goals
- Processed transactions accurately and handled cash with a high degree of integrity

Program Assistant - *UCSD IDEA Center - ACES Scholars*, La Jolla, CA

Jan 2021 - Jun 2023

- Provided administrative support for the Academic Center for Engineering Success Program (ACES) and the Engineering Learning Communities (ELC)
- Communicated essential administrative information to 12 peer educators and 77 ACES Scholars
- Managed and organized meeting times, workshops and socials for peer educators and scholars

Undergraduate Student Researcher - *Gravish Lab* - *University of California, San Diego*, La Jolla, CA

Aug 2021 - Aug 2022

- Developed research proposal through research of previous biomimetic swimming robot designs
- Managed design and fabrication of swimming robot using Solidworks and Prusa 3D printer
- Presented project at undergraduate research symposium to peers and professors

Undergraduate Student Researcher - *Morimoto Lab* - *Contextual Robotics Institute at UC San Diego*, La Jolla, CA

May 2021 - Aug 2021

- Managed design improvements of Laparoscopic Training Device (LTD)
- Utilized SolidWorks and Prusa 3D printer to design and fabricate inexpensive, 3D-printed parts for LTD
- Gained experience in rapid prototyping and cost-efficiency analysis

SKILLS

Hardware: Arduino

Computer Aided Design: Inventor | SolidWorks | Fusion 360

Fabrication: 3D printing | Soldering | Laser cutting | Geometric Dimensioning and Tolerancing

Software:: Matlab | Python | Microsoft Office

Language: Spanish (Advanced)

PROGRAMS

Engineering Basics Project Team Member - *Society of Hispanic Professional Engineers at UCSD*, La Jolla, CA

Jan 2019 - Jun 2019

- Trained in spatial visualization and how to interpret engineering drawings on Inventor
- Recreated various objects using only their drawing documents
- Designed themed chess pieces using a wide range of tools in Inventor

Empowerment and Development for Girls in Engineering Mentor - *Society of Women Engineers at UCSD*, La Jolla, CA

Nov 2020 - May 2021

- Guided two highschool girls as they explored STEM fields
- Designed basic career guide for choosing colleges and majors
- Networked with 14 students and answered questions related to coursework and research