
Jacobi Gunsalus

(805) 910-9956 | gunsalusjacobi@gmail.com | Greater Los Angeles Area | jacobigunsalus.github.io

EDUCATION

University of California, Los Angeles

Mechanical Engineering B.S. Degree

- Technical Breadth in Technology Management, Minor in Public Affairs

EXPERIENCE

Amazon - Bellevue, WA

HVAC and Field Engineering Intern

June 2022-September 2022

- Collect and analyze data using Excel and SQL for specific equipment and facilities using Amazon's Enterprise Asset Management and Building Management System sites.
- Use results to identify patterns of failure and use thermodynamics cycle principles and further research to propose possible causes of failure and increase reliability.
- Use manufacturer specifications, investigate current equipment, and communicate with technicians to develop preventative maintenance schedules and checklists to standardize the maintenance process.
- Go to Amazon facilities with repeated HVAC system failures to perform quality inspections and analysis.

Coco Robotics - Santa Monica, CA

Mechanical Engineering Intern

February 2021-September 2021

- Create Solidworks designs & perform rapid prototyping to develop new components to mass-manufacture.
- Manufacture mechanical and electrical components of the CocoBot, a food delivery robot that operates in LA county, and perform quality control testing and troubleshooting on a team of 5.
- Maintain existing robots, improve on previous designs, assemble new robots, and frequently utilize Solidworks and 3D printing to design and mass-manufacture smaller components in-house.

LinkedIn Learning - Carpinteria, CA

Campinteria Program Camp Counselor and Instructor

July 2019

- Worked alongside Campinteria instructors in helping attendees set up LinkedIn and GitHub profiles.
- Taught programming and basics of web development and design using Javascript, HTML, and CSS, and the process of publishing their websites via GitHub.

PROJECTS

3D4E UCLA - Westwood, CA

President

May 2022-Present

- Oversee the research and work of multiple engineering and design projects with a focus on 3D printing.
- Oversee outreach and EDI initiatives and focus on member retention, especially for minorities in STEM.
- Liaison between the university, industry, and other UCLA clubs and provide rapid prototyping services and engineering consulting to our liaisons.
- Submit funding proposals and presentations to secure funding via the school and outside corporations.

Combat Robotics at ASME UCLA - Westwood, CA

Technical Lead

April 2021-May 2022

- Oversee the design & manufacturing process for all 3lb battlebot teams and serve as a technical advisor.
- Handle budgeting and sponsorships of the 5-10 teams and organize the Combat Robotics Tournament.

SKILLS

Solidworks, Autodesk Fusion 360, Blender, 3D printing, machining (mill, lathe, drill press), laser cutting, MATLAB, C++, Python, HTML/CSS, Javascript, technical writing, policy writing, event management, communications, GSuite, Microsoft Office, Korean, Spanish, English, piano, studio art/design