
Jacobi Gunsalus

(805) 910-9956 | gunsalusjacobi@gmail.com | Open to Relocation | jacobigunsalus.github.io

EDUCATION

University of California, Los Angeles

Mechanical Engineering B.S. Degree, 2019-2023

- Minor in Public Affairs, Technical Breadth in Technology Management, GPA 3.22
- SEAS Terence Lim, SEAS Boeing, SWE UCLA Gilead, and National ASME Berna Lou Cartwright Scholar.

EXPERIENCE

Ultima Genomics - Fremont, CA

Product Engineer

August 2023-Present

- Rotational program in Operations, Systems/Reliability, and AI&T for a genomic sequencing product.

Motiv Space Systems - Pasadena, CA

Student Mechanical Engineer

February 2023-July 2023

- Develop specifications and design (CAD) for environmental testing of subsystems of a NASA JPL mission.
- Utilize Solidworks to design test systems & conduct FEA, use GD&T for manufacturing and assembly.
- Track overall progress of and develop a system to track procurements for all risk reduction projects.

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.
- Identify and research failure patterns (RCA) to propose possible causes and increase reliability.
- Use manufacturer specifications, investigate current equipment, and interface with stakeholders to develop preventative maintenance schedules and checklists to standardize the maintenance process.
- Visit 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

- 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.
- Improve on previous designs, assemble new robots, perform testing and maintenance activities, and utilize Solidworks and 3D printing to design and mass-manufacture smaller components in-house.

PROJECTS

3D4E UCLA - Los Angeles, CA

President

May 2022-Present

- Oversee multiple 3D printing projects & manage outreach event logistics for non-traditional engineers.
- Led club to a nomination for Student Group of the Year, won the Community Connection Award both years.
- Fundraised record amounts via reports & presentations to support projects and increase number of events.

Combat Robotics at ASME UCLA - Los Angeles, 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 & sponsorships of 8 teams and help organize the first SoCal Battlebots Tournament.

SKILLS

CAD (Solidworks, Fusion 360), FEA, Blender, 3D printing, machining (mill, lathe, drill press, CNC, laser cutting, water jet), Matlab, C++, Python, HTML/CSS, Javascript, R/RStudio, GSuite, Microsoft Office Suite, project management, Jira, RCA, Lean Six Sigma, data analysis, Korean, Spanish, English, technical writing, piano.