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# Jacobi Gunsalus

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## 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 (CA) 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.