
Jacobi Gunsalus

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EDUCATION

University of California, Los Angeles

Expected Graduation Date: June 2023

Mechanical Engineering B.S. Degree

- Technical Breadth in Technology Management, Minor in Public Affairs
- Relevant Coursework: Computer Science I, Differential Equations, Thermodynamics, Fluid Mechanics, Adv. Strength of Materials, Dynamics, Materials Science, Intro to Electrical Engineering, Intro to Mechanisms

EXPERIENCE

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

Carpinteria Program Camp Counselor and Instructor

July 2019

- Worked alongside Carpinteria 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

Biomedical Project at 3D4E UCLA - Westwood, CA

Project Manager

September 2021-Present

- Oversee and support the research and work of 5 team members with the ultimate goal of creating a remotely controlled robotic arm.
- Liaison between the university and its colleges, industry, and other UCLA clubs.
- Submit funding proposals and presentations to secure funding for the project.

Combat Robotics at ASME UCLA - Westwood, CA

Technical Lead

April 2021-Present

- 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.

Flagship Team Engineer

June 2020-March 2021

- Designed and implemented the electronic and drive train systems [Solidworks] for the 15lb flagship "Dorime Ameno" robot, focusing on the battery and wheels system.
- Recorded and monitored prices for subparts and systems to ensure the robot stayed under budget.

SKILLS

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