

# Louie Joshua Labata

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## EDUCATION

**University of California, Berkeley**, GPA: 3.9

**Expected May 2026**

*Degree:* Bachelor of Science in Mechanical Engineering

*Relevant Coursework:* The Structure and Interpretation of Computer Programs, Calculus, 3D Modeling

**Diablo Valley College**

**July 2021 - May 2022**

*Relevant Coursework:* Introduction to Robotics, Intro to Technical Drawing, Assembly/Fabrication Workshop

## SKILLS

**Languages:** Python, Java, C++, CSS, HTML, Javascript, Scheme, SQL

**Frameworks & Tools:** React.js

**Software:** SolidWorks, Fusion 360, Onshape, GrabCad, Cura, Google Workspace, MS Excel

## RELEVANT EXPERIENCE

**Cal NERDS**

**May 2023 - June 2023**

Data Validation Summer Intern

Berkeley, CA

- My role as a Cal NERDS ambassador focused on web data validation of a 200+ UC Berkeley website.
- This involved geolocating campus spaces using ArcGIS Survey123, verifying data, archiving data, web content editing, blog development, social media posting, and project management using basecamp.com.

**Benchmark Electronics**

**June 2022 - Aug 2022**

Process Feedback System Intern

Concord, CA

- Modeled parts and created their technical drawings on Solidworks for integration into the company's Process Feedback System that machine operators use as a reference to verify their parts specifications.
- Researched and documented the process that utilizes Bluetooth calipers with workstations saving operators time from manually entering dimensions and paving the way for future implementation.

**2022 FIRST Robotics Competition Robot**

**January 2022 - April 2022**

Lead Designer

Concord, CA

- Programmed in Java utilizing the WPILib Library that resulted in a reliable and simple-to-control robot. Created autonomous routines that allowed the robot to move, pick up, aim, and fire two balls consecutively into its target, with a smart camera sensor in under 15 seconds reliably.
- Designed the drivetrain and storage subsystems in Fusion 360. Manufactured parts with 3D Printers, Laser Cutters, and support from outside manufacturers which resulted in a 140 lbs industrial-sized robot.

## LEADERSHIP

**Project 212: FIRST Robotics Competition Club**

**May 2021 - May 2022**

President

Concord, CA

- Recruited and maintained a club of 37 active members through rallies and an inclusive environment. Doubling the amount from the prior year to the largest in the club's history and recruiting over 40% female.
- Created and facilitated a week-long Drone Programming Summer Camp for 24 incoming freshmen introducing them to STEM topics and providing opportunities for them to connect with their upperclassmen. Expanded the program to three new High Schools in the Tri-Valley the following summer of 2022.