Jonathan Li

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EDUCATION

California Polytechnic State University — San Luis Obispo, CA
Bachelor of Science in Mechanical Engineering — *Sep. 2022 – June 2026*

EXPERIENCE

Industrial Design Engineer Intern — Jan 2026 – Present
Cadly.AI — *Remote*
- Collaborating with cross functional teams to ideate, prototype, and refine product ideas using 3D CAD tools to develop market ready products
- Gaining hands-on exposure with end to end product development, including prototyping, engineering feasibility, manufacturing, and go to market considerations

Mechanical Engineer Intern — June 2024 – Sep 2024
Merrills Packaging — *Burlingame, CA*
- Collected and analyzed dimensional data for 1000+ parts using GD&T, contributing to capability studies that improved production consistency and reduced tolerance-related defects by 20%
- Performed 100+ inspections (FAI, initial samples, Gage R&R) and applied PFMEA, FMEA, and RCA to identify and mitigate high-risk failure points, preventing delays in PPAP submissions for key customers.
- Designed and dimensioned 150+ models using SolidWorks and AutoCAD for die cuts, molds, and pressure boxes, enhancing tooling reliability and cutting lead time by 10%.
- Partnered with manufacturing and QA teams to conduct pre-inspections on thermoforming machines, ensuring compliance with safety standards and reducing machine downtime by 10%.

Manager — Sep 2019 – Sep 2024
MamaJudy Cooking — *San Francisco, CA*
- Directed daily operations for 2000+ monthly customers while training and supervising 10+ staff members
- Oversaw the restaurant's presence on Yelp, Google, and Square while analyzing sales and expenses in Excel, leading to a 15% increase in profitability and higher customer satisfaction scores

PROJECTS AND INVOLVEMENT

Power Transmission Project — June 2025 – Aug 2025
- Prepared technical documentation including GD&T drawings of all mechanical components, progress/assessment reports to document project progress and performed engineering calculations to consider during design process
- Administered Microsoft Project Management to prepare GANTT chart schedules to assist in organizing and scheduling project activities such as assignment, arranging meetings to coordinate deliverables
- Designed shafts, gears, and bearing housings in SolidWorks, used assemblies to validate the final design, and manufactured all components through 3D printing and machining (mill, lathe, laser cutter) before assembling the full power transmission box
- Validated assembly performance in SolidWorks by conducting FEA, gear, and motion analyses to ensure reliability

Cal Poly Space Systems Club | *Rocket Igniter Team* — Sep 2024
- Collaborated with a 5-person team to design and test a liquid-fuel rocket ignition system, using SolidWorks to model ethanol/hydrogen piping and assemblies for safe integration
- Applied material selection and fluid mechanics principles to validate design feasibility and ensure compliance with propulsion safety standard

Embedded Systems Project: Temperature Sensor — Jan 2023
- Designed and fabricated a temperature sensor housing using AutoCAD, shop tools, and 3D printing, optimizing the enclosure for durability and precise sensor fit
- Developed an embedded Arduino system integrating sensor hardware and software for real-time data processing and display

SKILLS

Mechanical: Hand Drafting, Mastercam, SolidWorks, Mechatronics
Manufacturing: Casting, Subtractive Processes, , 3d printing, laser cutting, Welding, CNC Mill, Lathe, PFMEA, FAI
Programming/Tools: AutoCAD, MATLAB, EES, Arduino, Microsoft Excel/Word, Canva, Assembly Language, C++
Other: Microsoft Office Suite, Square (POS), Yelp (Business)
Languages: English, Mandarin (Proficient), Spanish (Limited)