GARRETT LENOCKER

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SUMMARY

Passionate mechanical engineering student with hands-on experience in mechanical design, rapid prototyping, and manufacturing processes. Skilled in CAD, engineering analysis, additive manufacturing, developing detailed engineering drawings for CNC machining, and practical troubleshooting. Proven ability to collaborate and lead within team-based engineering environments, along with customer-focused skills developed through hospitality experience, ensuring clear coordination and high-quality results.

SKILLS

- SolidWorks
- Fusion 360
- Engineering Drawings
- Arduino IDE
- MATLAB
- AutoCAD
- 3D Printing

PROFESSIONAL EXPERIENCE

Kazvu Labs | Mechanical Engineering Intern • 09/2026 - Present

• Design and prototype mechanical components to validate fit and functionality prior to CNC machining, producing detailed engineering drawings specifying dimensional tolerances and manufacturing requirements.
• Analyze robot mass distribution and tip-over stability to develop steel counterweight and mounting components for a mobile robotic system equipped with a UR10e arm.
• Develop interchangeable robotic tooling interfaces and mechanical packaging solutions to integrate electronics and fluid-delivery systems within space-constrained assemblies.
• Design, fabricate, and test 3D-printed snap-fit mechanisms for robotic end-effectors, optimizing geometry for secure retention and repeated use.

The Westin Anaheim Resort (AAA Four Diamond Hotel) | Concierge • 07/2022-06/2023 & 03/2024-Present

• Resolve an average of 5-10 guest concerns per shift, ensuring prompt solutions to create a great guest experience.
• Collaborate with a team of 9 Concierges and other hotel staff to deliver high-quality service.
• Provide personalized assistance to 20+ VIP guests per week, coordinating special requests and accommodations.

PROJECTS

CSUF Baja SAE • 09/2025 - 12/2025

• Assisted seniors with suspension kinematics (2D and 3D) in SolidWorks. Designed and 3D-printed jigs to support a PVC pipe mockup of the front suspension components, as well as the tie rod and upright, to test proper component movement before manufacturing.

Academic Project - Solar Oven • 09/2023 - 10/2023

• Led a six-member team in designing and constructing a low-cost solar oven, achieving an internal temperature of 165°C.
• Applied thermal calculations to predict oven performance, achieving approximately 80% of the predicted temperature while reducing material costs by 90%.

EDUCATION

California State University, Fullerton - B.S. Mechanical Engineering (May 2028) - GPA: 3.59

WEBSITE PORTFOLIO

glenocker.com - Website portfolio that showcases all projects in greater detail with images.