

Jack Leon

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Education

Loyola Marymount University, Los Angeles, CA

Bachelor of Science in Mechanical Engineering, Minor in Computer Science

Graduated May 2025 | GPA: 3.82 | Dean's List

Professional Experience

Intern at A1 Customs

May 2023 – May 2025

- Modeled designs based off concept drawings and/or verbal requests
- Turned modeled designs into drawings for streamlined manufacturing and construction

LMU Student IT Technician & Manager

Aug 2021 – May 2025

- Supervised team of student technicians, managed AV systems across campus, and delivered real-time tech support

Technical Experience

Undergraduate Research Assistant – LMU / Boeing Partnership

Jan 2023 – Jan 2024

- Investigated mechanical properties of additively manufactured AlSi10Mg using tensile testing and optical microscopy
- Synthesized findings into technical documentation and participated in literature reviews related to SLM technologies

Capstone Project – Sun-Tracking Solar Panel

Electrical Systems Design Lead

- Lead design and integration of an automated solar-tracking system to maximize efficiency
- Applied knowledge in control systems, sensors, and mechanical structures
- Improved energy efficiency by ~50% over multiple days of testing

Quality of Life Plus (QL+) Design Projects

Project Lead – Assistive Stander (2023–2024)

- Directed design of a custom standing device for a motor impaired adult to improve safety and independence

ASME LMU Chapter

Treasurer & Project Lead (2023–2025)

- Budgeted and lead multiple workshops to teach students skills ranging from Arduino to FEM

Skills

- **CAD & Simulation:** SOLIDWORKS, GD&T, FEA, MATLAB
- **Programming:** Java, Python, Raspberry Pi, Arduino
- **Fabrication & Testing:** 3D Printing, Soldering, Instron 4505 Rockwell Tester
- **Soft Skills:** Leadership, Problem Solving, Cross-functional Collaboration