

Nicholas Glenn

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EDUCATION

California Polytechnic State University, San Luis Obispo

Major GPA: 3.1

Bachelor of Science: Mechanical Engineering, to be conferred June 2027

Motivated Mechanical Engineering Student with hands-on project experience in manufacturing, design, and testing. Skilled at applying engineering fundamentals, collaborating across teams, and delivering results under tight deadlines. Dedicated to continuous improvement and pursuing a career in aerospace and aeronautics.

AREAS OF EXPERTISE

✓ SolidWorks & Fusion 360	✓ Quality Inspection & Materials Selection	✓ Procedure Documentation	✓ Time Management & Discipline
✓ Python, MATLAB, & C++ Knowledgeable	✓ Project Leadership & Collaboration	✓ FEA, Stress and Structural Analysis	✓ CNC Machining & GD&T

EXPERIENCE

Legacy Mechanical | San Ramon, CA | Project Engineering Intern (Jun. 2025 – Sept. 2025)

- Applied engineering drawings and specifications to real-world construction projects.
- Developed skills in cost estimation, project scheduling, and coordinating HVAC system design.
- Strengthened problem-solving and communication by collaborating with project managers and field teams to resolve technical challenges and keep projects on track.

Northrop Grumman Collaboration Project | Cal Poly SLO, CA | Mechanical Engineer (May 2025 – Present)

- Collaborated on a mechanical engineering team to design, model, fabricate, and test drone systems, with responsibilities in 3D modeling, materials selection, and structural analysis.
- Gained hands-on experience in Fusion 360 modeling, MATLAB simulations, and FEA validation.
- Learned to work across disciplines by collaborating with electrical engineers on avionics integration.

Interfraternity Council | Cal Poly SLO, CA | Vice President of Engagement (Dec. 2024 – Present)

- Strengthened communication and collaboration skills by engaging campus communities to increase student participation in Greek Life and clubs
- Built connections between the university, and local neighborhoods by representing students at conferences.

DxD Biotech | Mountain View, CA | Engineering Intern (Jun. 2024 – Jul. 2024)

- Partnered with multidisciplinary teams to analyze recurring patient challenges, research case studies, and evaluate concepts using Pugh matrices at Fogarty Innovation Center.
- Developed and refined medical device prototypes, applying problem-solving to address healthcare needs

Cal Poly Men's Swim and Dive | Cal Poly SLO, CA | Division I Athlete (Sept. 2022 – Dec. 2023)

- Built mental fortitude by learning to overcome failures and stay disciplined in pursuit of goals.
- Balanced the demands of NCAA Division I athletics with a full engineering course load and 3.2 GPA.

PROJECTS

Payload | Cal Poly SLO, CA | CAD, FEA & 3D Printing (Sept. 2025 – Present)

- Designed an automated bay-door payload system for a rescue UAV, meeting strict specifications provided by Northrop Grumman.
- Refined payload geometry through aerodynamic analysis to reduce drag while preserving structural integrity.

Air Motor | Cal Poly SLO, CA | CNC Machining & Quality Inspection (Mar. 2025 – Jun. 2025)

- Designed and machined precision aluminum components using CNC equipment based on SolidWorks models
- Performed dimensional inspection with calipers and micrometers, identifying and reworking nonconforming parts through root cause analysis and process revision