

# Nicholas Glenn

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## EDUCATION

**California Polytechnic State University, San Luis Obispo**

**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