

APOLONIO ORDAZ

MECHANICAL ENGINEERING STUDENT AEROSPACE, DEFENSE & ADVANCED MANUFACTURING

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EDUCATION

California Polytechnic State University, San Luis Obispo | GPA: 3.855 **05/25 –Present**
BS in Mechanical Engineering *Expected Graduation: December 2027*

Fresno City College (FCC) **2023 – 2025**
AS for Transfer in Mechanical Engineering

ENGINEERING EXPERIENCE

Vandenberg Space Force Base **Summer 2026**

Rapid Prototyping & Manufacturing Engineering Intern

- Designed and fabricated training aids and prototype projects supporting operational training needs at Vandenberg Space Force Base, translating documented requirements, physical constraints, and usability needs into functional hardware.
- Used rapid-prototyping and advanced-manufacturing methods to turn engineering concepts into physical components.
- Performed iterative design, fabrication, and fit/function verification to meet training-realism and usability requirements.
- Collaborated with engineers and stakeholders to deliver requirements-compliant training hardware while following applicable quality and CUI-handling procedures.

Baja SAE Team-Cal Poly Racing **2025 – Present**

Rear Suspension Team Member

- Manufactured rear-suspension components for Cal Poly Racing's Baja SAE vehicle using manual mill and lathe equipment.
- Interpreted engineering drawings, dimensions, and GD&T requirements to set up and machine parts to specified tolerances.
- Built hands-on experience with machining safety, inspection, part setup, and iterative fit-up during vehicle assembly.

NASA Community College Aerospace Scholars (NCAS) **09/24-02/25**

Project Manager

- Selected for NASA Community College Aerospace Scholars, a competitive aerospace program focused on systems engineering, mission design, and collaborative problem-solving.
- Led a multidisciplinary team during a simulated Mars mission, coordinating mission planning, systems integration, project management, and risk analysis.
- Applied systems-engineering principles to develop and present a mission concept from initial planning through simulated execution.

WORK EXPERIENCE

Fresno City College – Tutorial Center

Engineering/Math/Physics Tutor

01/24 – Present

- Tutored college students in calculus, physics, and engineering mechanics, strengthening technical communication and problem-solving skills.

SKILLS

CAD & Design

- SolidWorks (CSWA Certified)
- Fusion 360
- AutoCAD

Engineering

- GD&T
- Technical Drawings
- Design for Manufacturing (DFM)
- Mechanical Assembly

Manufacturing

- Manual Mill
- Manual Lathe
- Additive Manufacturing
- Rapid Prototyping

Programming

- MATLAB
- Python
- C++