

FREDDY RIVERA

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EDUCATION

B.S. Mechanical Engineering – Northern Arizona University (NAU), Flagstaff, AZ

Expected May 2026 | GPA: 3.51

ENGINEERING EXPERIENCE

Mechanical Engineering Intern

Arizona Public Service (APS) – Standards Department | Phoenix, AZ

May 2025 – June 2025

- Optimized substation equipment records in IBM Maximo for 100+ components, integrating manufacturer cut sheets and ensuring 100% data accuracy.
- Independently created a comprehensive BOM for a 12' control house, verifying exact quantities and organizing inventory tracking in Microsoft Office Suite.
- Updated technical drawings to align with revised animal-guard standards, improving field implementation reliability across regional utility sites.
- Audited vendor documentation for powerline ball markers, preventing costly procurement and documentation errors in the supply chain.

ACADEMIC PROJECTS

Project Manager: Robotics Traveling Van Capstone | NAU

Jan 2026 – Present

- Served as lead project manager overseeing the development of two mass-producible, dynamic balancing robots (including a Ball-on-Beam system) designed to demonstrate complex control theory.
- Manage full-cycle procurement and international supply chain logistics for critical mechanical hardware, mitigating schedule risks to meet strict academic deadlines.
- Direct the mechanical assembly strategy and collaborate closely with Electrical Engineering teams to successfully integrate stepper motors and Proportional-Integral-Derivative (PID) control systems.

LEADERSHIP & WORK EXPERIENCE

Desk Assistant – NAU Academic Success Center | Flagstaff, AZ

Aug 2023 – Present

- Managed front-desk operations, tutoring schedules, and student support in a high-volume environment.
- Served as primary point of contact for students, faculty, and staff.

American Society of Mechanical Engineers (ASME) – Chapter Secretary & Member

Sept 2022 – Present

- Served as Chapter Secretary, executing outreach strategies, coordinating facility tours, and managing logistics to ensure the smooth execution of club operations and events.
- Lead student-driven "Escape Room" design projects, utilizing mechanical engineering principles to conceptualize and build interactive physical puzzles and mechanical traps.
- Participate in collaborative design challenges and ongoing professional development activities.

SKILLS

- **Software:** IBM Maximo, SolidWorks, Microsoft Office.
- **Engineering & Technical:** Mechanical Assembly, Blueprint Reading, Proportional-Integral-Derivative (PID) Controls, Physical Prototyping.
- **Project Management:** Bill of Materials (BOM) Development, Procurement & Supply Chain Sourcing, Standards Compliance, Cross-Functional Leadership, Operations Coordination.