Alexandra Schell

(480) 204-9546 | alexjschell00@gmail.com | Flagstaff, AZ

Education

Northern Arizona University | Flagstaff, AZ   Expected May 2025
Bachelor of Mechanical Engineering
- 3.3 GPA

Universidad Pablo de Olavide | Seville, Spain   September 2023 - December 2023
Study Abroad
- Spanish minor

Experience

SEIT Intern | General Dynamics | Phoenix, AZ | May 2024 – August 2024
- Assisted in radiation, thermal, and vibration testing to validate system reliability and compliance.
- Assisted team using … to do reduced errorsReduced design errors by 15% through CAD improvements.
- Utilized C++ programming for engineering solutions and software development.
- Supported project management tasks, including coordination, documentation, and logistics.

Technician | Grumeber | Barcelona, Spain | January 2024 – February 2024
- Created 10+ detailed 2D/3D CAD models weekly to support manufacturing processes.
- Conducted strength calculations and optimized designs for manufacturability.
- Verified production drawings against 3D models to ensure accuracy and compliance.
- Enhanced Spanish fluency through cross-cultural technical collaboration in a manufacturing environment.

Capstone Project | NAU Biomechatronics Lab | August 2024 – May 2025
- Led a team to redesign and manufacture a below-the-knee exoskeleton to improve mobility for individuals with disabilities.
- Integrated PCB, battery, and motor into the lower-leg structure while ensuring ingress protection against dust, water, and debris.
- Applied thermal protection and material selection for system durability and safety.

HR Student Worker | NAU Human Resources | Flagstaff, AZ | August 2023 – Present
- Assisted 20+ new hires weekly, ensuring a smooth onboarding experience and accurate record-keeping.
- Developed strong interpersonal, communication, and organizational skills while managing sensitive information.
- Balanced academic responsibilities with professional duties, showcasing time management and adaptability.

Technical Skills

- CAD & Simulation: SolidWorks (3D modeling & FEA), MasterCAM, Navisworks
- Engineering Analysis: Strength calculations, FEA (SolidWorks Simulation), MATLAB, Mathcad
- Software & Tools: C++ programming, Microsoft Office Suite (Word, Excel, Teams)
- Manufacturing & Testing: Machine design, radiation/thermal/vibration testing, process optimization
- Languages: Spanish (High proficiency in speaking, reading, and writing)

Awards and Certifications
- Pre-Engineering Industry Certified - In the disciplines of Programming, Mechanical, Electrical
- Robotics Industry Certified - In the disciplines of Programming, Mechanical, Electrical
- Secret level security clearance
- NAU Lumberjack Scholarship Recipient