

David Polkabila Jr

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OBJECTIVE

Mechanical Engineering senior at Northern Arizona University, eager to apply hands-on experience in design and analysis to drive innovation in engineering solutions. Seeking full-time employment opportunities post-graduation to contribute to impactful engineering projects.

EDUCATION

Northern Arizona University – Flagstaff, AZ
Bachelor of Science in Mechanical Engineering
Expected Graduation Date: May 2025

SKILLS

- **Technical Tools:** SolidWorks, ANSYS, MATLAB, Microsoft Office
- **Engineering Skills:** Product design, CAD modeling, Stress analysis, Prototyping, Mechanical systems
- **Soft Skills:** Team leadership, Problem-solving, Project management, Customer service, Time management

PROJECTS

Senior Capstone Project - SAE Baja Competition | Ongoing

- **Leading the Steering and Brakes sub-team in designing and building components for the 2025 SAE Baja Competition.**
- **Developing designs using SolidWorks, ensuring components meet performance and safety criteria.**
- **Conducting stress and safety analyses using ANSYS to optimize system functionality under harsh conditions.**

Junior Writing Project - Active Aerodynamic Spoiler Design | Spring 2024

- **Collaborated with a team to design an aftermarket active aerodynamic spoiler for use on various car models.**
- **Analyzed material stresses and production costs, balancing performance with affordability.**
- **Utilized SolidWorks and ANSYS for mechanical and aerodynamic simulations to improve downforce and vehicle stability.**

EXPERIENCE

Bill's Machine Shop

Shop Assistant

5/2023 - 8/2023

Show Low, Arizona

- Assisted with disassembly, cleaning, and reassembly of engine heads and blocks.
- Gained experience in mechanical systems and assembly techniques.
- Ensured that equipment and tools were properly maintained and organized for efficient workflow.

CAL Ranch

Freight Crew Member

05/2022 – 08/2022

Show Low, Arizona

- Stocked and faced shelves, assisted customers, and built in-store displays.
- Developed teamwork and time management skills while handling freight and ensuring store organization.
- Provided customer service in product selection and troubleshooting.