

RYAN CARBERRY

MECHANICAL ENGINEERING STUDENT

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CAREER SUMMARY

I am a motivated Mechanical Engineering senior at Northern Arizona University seeking full-time employment. I have a strong foundation in technical problem solving with teamwork and leadership experience.

EDUCATION

Bachelor of Science: Mechanical Engineering Major, Civil Engineering Minor. Expected graduation 06/2026

Northern Arizona University - Flagstaff, AZ

Current GPA: 3.2

- Relevant Coursework
 - Heat Transfer: Use of MATLAB and SimScale and to solve complex conduction, convection, and radiation problems
 - Machine Design II: Design of gear trains, flat/V-belts, weld shear/axial stress
 - Aerodynamics: Use of Fluid Dynamics and Thermodynamics to analyze external fluid flow

TECHNICAL SKILLS

- ANSYS Fluent – Analysis of external fluid flow over an airfoil
- MATLAB – Complex problems in Heat Transfer and Machine Design stress analysis
- SolidWorks – Various design projects including Savonius wind turbine, RC airplane, etc.
- Theodolite/Total Station – Use in land surveying
- Manufacturing - Mill/Lathe/Drill Press/Belt Grinder, 3D Printing
- Measuring Tools – Micrometer, Calipers, Tolerances per ANSI Y14.5
- Forging – beginner blacksmith
- Automotive skills – Oil change, starter replacement, coolant flush, tire change, etc.

PROJECTS/EXTRA-CURRICULARS

Capstone – SAE Aero Micro Team - Lead wing design and test engineer (8/2025 – 5/2026)

- Use of XFLR5, ANSYS Fluent, and SolidWorks to design multiple wing structures, and manufacture multiple prototypes with working control surfaces

Mill and Lathe advanced training - NAU machine shop

- Mill: Face milling, Slot milling, End milling, Bolt slot, and Threading using a Digital Readout
- Lathe: Facing, Turning, Parting, Boring, Threading

Theta Chi Fraternity member (2022 – present)

- Recruitment chair and Brotherhood chair (2023-2024)

AA Club Hockey (2017-2021)

- Elected assistant captain in 2021

WORK EXPERIENCE

Designs West Home Furnishing – Flagstaff, AZ, Warehouse associate 11/2024 – Present

- Drive box truck, deliver/receive furniture, organize warehouse, fix broken furniture

YMCA Summer Camp Leader – Redondo Beach, CA, 5/23-8/24

- Supervised kids 5-12 years old in groups of 12 on campus and on field trips

Jersey Mikes Subs – Hawthorne CA, Crew Team Member, 05/2021 - 06/2023

- Expert at crafting high quality sandwiches, optimized operations and enhanced customer satisfaction

Youth Hockey Coach – East West Ice Palace, Bellflower CA, 03/2021 – 07/2021

- Worked with children ages 8-14 and taught them the basics of ice hockey