

Austin Hess

Student of Mechanical Engineering, Northern Arizona University

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EDUCATION

Northern Arizona University, Flagstaff, AZ

Mechanical Engineering — Bachelor of Science — Graduating May 2026

- Formula SAE Capstone suspension team, CAD team lead
- Mill certified at NAU's on-campus machine shop
- Theta Tau Professional Engineering Fraternity active member
- Mathematical modeling of heat transfer phenomena
- Finite element analysis of mechanical systems

PROJECTS

Formula SAE Suspension — CAD team lead

Designing and manufacturing the full suspension assembly for NAU's 2026 submission to the Formula SAE racing competition. Involves complex analysis of forces through FEA, using Solidworks to model the majority of suspension components, part fabrication, assembly.

Brake Rotor Convection Design Experiment

Designed an experiment to accurately measure differences in forced convection with respect to heat dissipation of a 1994 Geo Metro brake rotor. Calibrated thermocouples and data acquisition software to verify real world results with simulated and theoretical calculations.

JOB EXPERIENCE

NiMarcos Pizza, Flagstaff, AZ — Cook

July 2025 - January 2026

- Make pizzas and other items to order
- Take orders over the phone
- Ingredient preparation, stocking, closing procedures
- Serve food to customers with engagement

SKILLS

Solidworks CAD of complex assemblies

FEA simulation and topology optimization

Mill certified

SimScale heat transfer analysis

Matlab modeling of problems

Team leadership

Project management

Customer service expertise

Coursework

Aerodynamics

Heat Transfer

Numerical Analysis

Machine Design II

Experimental Methods in the Thermal Sciences

Tools and Instrumentation

DAQ systems (Pico, Labview)

Peltier devices

Horizontal band saws

Thermocouples (K-type)