

# Matthew J. Dale

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## EDUCATION

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**Northern Arizona University** with Lumberjack Scholarship, 3.0 gpa Expected May 2025

Multidisciplinary Engineering with Design Emphasis *Flagstaff, AZ*

- Relevant Coursework: Calculus I-III, Calculus Based Physics I and II, Chemistry, Computer-aided Design, Machine Design, and various classes that incorporate learning about Artificial Intelligence and Virtual Reality.

## PROGRAMS

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- Solidworks - ANSYS - Blender - UltiMaker Cura - MatLab - Photoshop - Microsoft Office - Unreal Editor - Canva -

## PROJECTS

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**2025 SAE Baja Team** - Collaborated with a team of 15 students to design, fabricate, and test an off-road vehicle for the Society of Automotive Engineers Baja competition. Going from CAD designs, to FEA testing, to machining, every part except the engine and wheels are custom made.

**Concrete/Ceramic Printer** - Experimented with a SCARA 3d Potter to find the optimal clay moisture and composition for printing, develop custom concrete mixture, printing a multi-part model of mountain for artist James Turrell.

**Physical Therapy Device** - Working with The Physio Shop to develop a device that attaches to a barbell and oscillates a 5lb weight to stimulate otherwise unused muscles when exercising, concluding in a human study to test design.

## WORK EXPERIENCE

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### Cardinal Group

*Porter* 08/2023 – 07/2024

Move heavy appliances around 3 apartment complexes, perform light maintenance and assist technicians with complex repairs. *Flagstaff, Arizona*

### Aerotek

*Evacuation Slide Tester* 05/2021 – 08/2021

Tested new airplane evacuation slides to be approved for FAA regulation, saw the engineering process firsthand in the aerotek testing facility. *Phoenix, Arizona*

### Subway Sandwiches

*Shift Lead* 11/2019 – 12/2020

Led nightly store closure, not only maintaining seamless operations, but improving the structure of how the store was run by implementing an entirely updated closing system. Trained new hires. *Phoenix, Arizona*

## EXTRA CURRICULARS

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### Inter-Fraternal Council

*Public Relations Chairman* 2023

- Represented 13 fraternity chapters on campus, overseeing recruitment, policy development, and community engagement, organized and managed formal recruitment events, resulting in the highest growth in 5 years.
- Attended 2023 AFLV West Conference, participating in workshops on leadership development, risk management, and diversity initiatives.
- Applied knowledge gained to improve engagement within my fraternity.

### Philanthropy

- St. Mary's food bank
- Lost our home animal shelter
- Feed my starving children