

# Tobin Lanford

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## WORK EXPERIENCE

### **kW Mission Critical Engineering, Tempe, AZ** —*Mechanical Engineering Intern*

June 12th, 2023 - August 18th, 2023

June 3rd, 2024 - August 16th, 2024

Learned the fundamentals of HVAC and psychrometry. Gained experience and knowledge in autodesk software, while working with engineers to design large scale HVAC systems for data centers. Designed refrigerant piping in Revit and conducted cooling load calculations for data center rooms using Trane Trace 700. Modeled data halls using Tileflow CFD software and conducted numerous interior CFD simulations to evaluate the effectiveness of HVAC systems. Presented the results of these simulations to clients to ensure our designs fulfilled customer requirements.

### **NAU Campus Recreation, Flagstaff, AZ** —*Lead Route Setter*

August 2022 - Current

Teaching technical skills and climbing techniques for safe climbing and conducting tests on proper belay technique. In addition to handling rental equipment and creating a welcoming gym environment.

### **Jimmy John's Sandwiches, Montrose, CO** —*Bread Starter*

February 2020 - July 2021

Managing a sandwich line to ensure quality food is served as quickly as possible. Additionally worked the drive through and closed the restaurant with 2 other employees.

### **Del-Mont Consultants INC, Montrose, CO** —*Intern*

September 2020 - November 2020

Received training in hand drafting techniques and Civil 3D CAD Software.

### **U.S. Forest Service, Montrose, CO** —*Forest Intern Program*

Summer 2018 and Summer 2019

Collected data concerning potential wildfire fuel on the Uncompahgre Plateau. Taken before and after prescribed treatments to evaluate their effectiveness in bringing the forests back to a healthy state.

## OTHER EXPERIENCE

### **NAU Formula SAE (Powertrain),** Flagstaff, AZ—NAU

Fall 2024 - Spring 2025

Designing and building a Formula style race car for the 2025 FSAE competition on a team of 19 students, divided into 4 primary sub-teams. The Powertrain team is responsible for all systems involving the transfer of power to the vehicle's wheels.

### **ME 386W: Active Off-Road** **Suspension, Flagstaff, AZ—NAU**

Fall 2023

Developed a concept for an active-suspension system tailored to off-roading. This course primarily served to develop technical writing skills.

### **EGR 186: Sustainability in the** **Kitchen, Flagstaff, AZ—NAU**

Fall 2021

Presented a prototype to Gore engineers. Integrated a pump system into a dish sponge to reuse water while hand washing dishes.

## EDUCATION

### **Northern Arizona University**

2021 - Expected Graduation: May 2025

Currently enrolled at NAU seeking a Bachelor's of Science in Mechanical Engineering.

### **Montrose High School — Diploma**

2017 - 2021

## SKILLS

Effective verbal and written communication  
Customer service  
Professionalism  
Collaboration  
Autodesk Revit and AutoCAD  
Solidworks  
Computational Fluid Dynamics  
MATLAB  
Excel  
Basic machining operations

