Radley Rel

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EDUCATION

Northern Arizona University, B.S. Mechanical Engineering, Flagstaff, AZ | Graduation: Fall 2022

• Relevant Courses: Aerodynamics, Fluid Mechanics, Dynamics, Thermodynamics, Machine Design, Structural Analysis, and Material Science

• Awards: Dean's List 2017-2019

WORK EXPERIENCE

Northern Arizona University, Teaching Assistant Flagstaff, AZ | Aug 2018 – Dec 2021

Engineering Teaching Assistant for Engineering Design, *Two Sections per semester; 80 Students* Graded all homework and was in class once a week to assist students, separate tutoring sessions and

managed bookkeeping

• Engineering Teaching Assistant for Engineering Design II, Single Section; 40 students

• Graded all homework and was in class once a week to assist students, separate tutoring sessions and managed bookkeeping

PROJECT EXPERIENCE

Solar Powered Unmanned Aerial Vehicle, Senior Capstone Project Flagstaff, AZ | Jan 2022 – Dec 2022

• Budget Liaison and Lead Manufacturing Engineer of six engineering students; four mechanical and two electrical

• Design and construction of multiple unique aircrafts while in cohorts with NACA standards

• Tested designs using software such as XFoil and SolidWorks, along with physical wind tunnel lab testing

• Worked with Vertical Mill and 2-Axis Lathe to fabricate necessary parts

Renewable Energy Solar Design and Build Project, Solar Design/Build Project Flagstaff, AZ | Aug2022 – Dec 2022

• Lead Systems and Design Engineer of eight mechanical engineering students

• Designed a Solar system within SMA Sunny Design, Sunny Island software to handle the family's expected daily loads

• Off-grid solar design and simulation, wind power analysis and design, battery system design, and on site installation conducted

• Built a customer-client relationship with the Wilson family

Lumberjack Motorsports SAE Baja Collegiate Competition, Junior Year Project Flagstaff, AZ | Jan

2021 - May 2021

• Frame and Rear End Lead of four engineering students; developed a chassis and strong rear suspension system

• Worked in the machine shop to develop and manufacture the Chassis of the vehicle along with body panels, safety equipment, and driver ergonomics using machines such as a vertical mill, lathe, and bandsaw

• Used CAD software such as Fusion 360 and Solid works to develop the vehicles subsystems

•Designed the Vehicles subsystems based on a strict set of rules and regulations put in place by the society of automotive engineers (SAE)

SKILLS

Software: SolidWorks, MATHCAD, MATLAB, AutoDesk Fusion 360, Excel, SMA Sunny Design, and Adobe Dreamweaver

Hardware: Vertical Mill, Lathe, Bandsaw, and Soldering

References Provided Upon Request