WS Willem Spencer

Applicable Knowledge

- CAD/CAM
- ANSYS
- MATLAB
- Lotus Suspension Analysis SHARK
- Microsoft Word and Excel

Additional Experience

Autocross and Solo Mechanic

- Maintain, modify, and autocross my 1990 Mazda Miata
- Perform maintenance on a variety of vehicles

Radio-Controlled Drone Project

- Build, tune, and fly small racing drones

Contact Information

PHONE
(253) 625-6087

EMAIL
willemspencer@gmail.com

EXPERIENCE

August 2021– Present
Machine Shop Manager and Lab Aide • Northern Arizona University • Flagstaff, AZ

- Teach the manual lathe and mill advanced training on weekends
- Aid in teaching ME286L Manufacturing Lab
- Provide design and manufacturing advice to students
- Complete work orders submitted by Capstone teams
- Maintain and repair machines
- Work with CAM software, manufacture parts on the CNC lathe and mill

May 2021– August 2021, May 2022-August 2022, July 2023 – August 2023
Bike Technician • Tacoma Bike • Tacoma, WA

- Assembled 3-5 bicycles per day, completed work on customer bikes
- Provided purchasing advice and industry knowledge to customers

LEADERSHIP

NAU Formula SAE Startup

- Responsible for starting FSAE at NAU, currently suspension lead
- In the design and prototyping phase: conducting stress analyses on critical components, integrating suspension and drivetrain components with current chassis
- Team goal: full car complete beginning of April 2024, attend our inaugural competition in May 2024

SAE Club

- Co-VP of the Society of Automotive Engineers (SAE) NAU Chapter
- Emphasis on Formula SAE, with participation in Baja SAE
- Manage club activities, lead weekly club and technical meetings, communicate with faculty, manage club member tasks and roles

EDUCATION

Northern Arizona University, Flagstaff, AZ

- Senior pursuing BS in Mechanical Engineering
- Anticipated graduation: Spring 2024
- 3.88 Cumulative GPA

SCHOOL PROJECTS

ME286L Vehicular Transport Project

- Project scope: develop two radio-controlled vehicles to transport a variety of objects to their corresponding drop locations
- Recognized as best overall team