

JACOB REID

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Education

Bachelor of Science: Mechanical Engineering, Expected in 05/2024

Northern Arizona University - Flagstaff, AZ

- NAU WUE Blue Scholarship
- Formula SAE Club - Active Member

Professional Summary

Through experience in the Formula SAE team, it taught me what it is like to work with a large team with managers and sub-managers while also manufacturing parts such as a carbon fiber seat, body panels, firewall, and a car frame. Experiences that came with this opportunity was a stress and fatigue analysis on the frame, building a Jig from scratch allowing error to be fleshed out while constantly checking the competition rules and understanding what can and can't be used in manufacturing. I am a Hardworking and passionate job seeker with strong organizational skills eager to secure an entry-level Kiewit position. Ready to help my team achieve company goals and standards in equipment engineering.

Skills

- Conflict Resolution
- Organization
- Time Management
- Communication Skills
- Excel, Word, Powerpoint
- SolidWorks (Stress/Fatigue Analysis)
- MATLAB coding (2D Steady State Conduction Analysis)

Analysis Experience

- Heat analysis for the exhaust manifold for the Formula SAE race car in SolidWorks.
- Impact testing for the chassis for front and side impacts through SolidWorks simulations.
- MATLAB coding for a 2D steady state conduction analysis on a square schematic.

School Project and Employment History

NAU Formula SAE Competition, 09/2023 to Current

Senior Capstone Project – Flagstaff, AZ

- Drafted assemblies, models, and other technical drawings.
- Planned equipment through rough sketches and then integrating them into CAD for final quality assurance and purchasing.
- Designed high quality, robust and cost-effective CAD product models by preparing detailed drawings, assembly sketches and diagrams at a low budget through excel.
- Executed virtual product testing using dynamic simulations and fatigue/stress analysis through SolidWorks
- Worked through a machine shop to manufacture parts that were integrated to the frame of the race car.
- Inspected various parts in the chassis design and made necessary changes through design planing and understanding mistakes might happen.
- Time management and working with multiple projects at a time.

Oreganos Back of House Employee, 09/2022 to Current

Oreganos Pizza Bistro – Flagstaff, AZ

- Worked effectively in fast-paced environments.
- Cultivated interpersonal skills by building positive relationships with others.
- Assisted with day-to-day operations, working efficiently and productively with all team members.
- Developed and maintained courteous and effective working relationships.
- Managed time efficiently in order to complete all tasks within deadlines.

Formula SAE 2024 Website Link

https://www.ceias.nau.edu/capstone/projects/ME/2024/F23toSp24_Formula24/