

Jacob R. Parkhurst

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Objective: To obtain a full-time job in the field of mechanical engineering

Education: Missouri University of Science and Technology (Missouri S&T)
B.S. Mechanical Engineering

May 2021

GPA: 3.6/4.0

Experience:

Missouri S&T – Formula SAE Team

Rolla, MO

Chief Engineer and Vehicle Dynamics Lead

May 2020 - Present

- Managed all aspects of design, construction, and testing of formula car
- Created new team structure
- Started new generation of formula car
- Created new communication hub for the team
- Ensured system integration
- Planned test days to gather data about the car
- Pushed team to try innovative designs
- Lead vehicle dynamics group meeting
- Implemented new means of knowledge transfer

Cooling Project Engineer

June 2018 – June 2019

- Designed data acquisition system for previous car to perform real world testing
- Analyzed data collected and applied the knowledge gained to the new cooling system design
- Designed and manufacture a dual radiator ran in a parallel configuration cooling system
- Performed validation testing on cooling system to ensure car would perform predictably in competition
- Interacted and coordinate with alumni to gain knowledge in thermal analysis
- Communicated with project engineers to ensure system integration between the cooling system and the frame, engine, aero, and other sub-systems

Fike Corporation

Blue Springs, MO

Co-op Mechanical Engineer

May 2019 - January 2020

- Designed pressure relief devices to meet the requirements of ASME Section VIII
- Calculated thread shear/stress and minimum weld penetration to ensure pressure relief devices meet customer requirements
- Evaluated customer concerns and write reports for product returns
- Created testing procedures for Fike's test and validation team
- Communicated with Fike teams around the world to meet customer specifications
- Collaborated with multiple internal teams (Quality, Manufacturing, Purchasing)
- Designed tooling to improve efficiency of manufacturing team
- Created material specifications for welding procedure

Skills:

Siemens NX

Autodesk Inventor

AutoCAD

Problem Solving

Microsoft Office

Teamwork/Collaboration

Troubleshooting

Time Management

MATLAB

Welding/Machining

Leadership

Smartsheet

LabVIEW

Project Management