

Taylor Miner

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Objective is optional. If you are going to include one, make sure it is specific to each role you are applying for!

Education

Missouri University of Science & Technology

May 2025

Bachelor of Science in Mechanical Engineering

GPA: 3.5/4.0

Relevant Courses: Machine Design II, Computational Heat, Heat Transfer, Machine Dynamics, Control of Linear Systems, Engineering Design, Mechatronics, Internal Combustion Engines, & Mechanics of Materials.

Experience

Missouri University of Science & Technology

Chief Engineer – Formula SAE Team

Aug 2024 – Present

- Managed all aspects of design, construction, and testing of formula car
- Reviewed designs submitted by group leaders and encourages knowledge sharing
- Defined and guided the overall concept and development of car
- Analyzed the most popular formula car design trends & presented the results in a confident manner

Research Project: Trending Formula Car Designs for 2025

Missouri University of Science & Technology

Rolla, MO

Team Leader – Suspension Design and Analysis

Aug 2023 – May 2024

- Designed car's suspension kinematics and oversaw on-track testing/tuning
- Developed MATLAB-based quasi-steady state vehicle dynamics stimulation program
- Researched ways to minimize damper friction
- Collaborated with 10 students on modeling, design, and analysis of suspension uprights

B.E.S.T. Tractor Manufacturing, Inc.

Sioux City, IA

Technical Sales and Marketing Engineering Intern

May – Aug 2024

- Analyzed distributed heat loading on diesel cylinder head
- Designed apparatus to allow for video recording of coolant flow within diesel engine head
- Created models and mechanical drawings for patent applications and limited-run parts
- Analyzed aftermarket parts sales to determine total market penetration

Self-Employed

Sullivan, MO

Mechanic

May 2022 – Aug 2024

- Restored motor, driveline, and paint on 1961 Ford tractor
- Rebuilt motocross bike and various other small engines as needed
- Custom-fabricated boat trail and truck bumper

Skills

Technical: MATLAB, Autodesk Inventor, Ansys Design Modeler, Star-CCM+, AutoCAD, SolidWorks, Siemens NX

Office: Microsoft 365 Applications, Google Suite Applications

Interpersonal: Clear Communication, Negotiation, & Team Motivation

Activities

Pi Tau Sigma – National Honorary Mechanical Engineering Society

June 2024 - Current

Missouri University of Science and Technology Tau Beta Pi – Engineering Honor Society

May 2024 - Current

Missouri University of Science & Technology Phi Beta Sigma – National Honor Society

May 2024 - Current