

Taylor Miner

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Education

Missouri University of Science & Technology May 2025
B.S. Mechanical Engineering **GPA: 3.5/4.0**

Courses:

-Machine Design II	-Computational Fluid Dynamics	-Heat Transfer
-Machine Dynamics	- Control of Linear Systems	-Engineering Design
-Mechatronics	-Internal Combustion Engines	-Mechanics of Materials

Experience

Missouri University of Science & Technology Rolla, MO
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

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 2023

- 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 2018 – Aug 2022

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

Skills

-MATLAB	-Autodesk Inventor	-Ansys Design Modeler	-Star-CCM+
-AutoCAD	-SolidWorks	-Siemens NX	-Microsoft Excel

Honors & Activities

- Pi Tau Sigma – National Honorary Mechanical Engineering Society
- Missouri S&T Tau Beta Pi – Engineering Honor Society
- Missouri S&T Phi Eta Sigma – National Honor Society