

Matthew Martin

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Education

Bachelor of Science in Mechanical Engineering
Trine University, Angola, IN

Anticipated May 2025
Current GPA: 3.807/4.0

Skills

- Three voted-in leadership positions through sports (1) and class projects (2).
- Intermediate experience with MATLAB, SolidWorks, NX, and Ansys Workbench.

Work Experience

Corporate Engineer Intern, Performance

May 2024 – Present

Caterpillar Inc., Mossville, IL

- Leading technical investigations to resolve or improve complex engine performance problems, providing detailed reports to stakeholders.
- Managing data acquisition and analysis for engine performance studies through in-house software, ensuring accurate and actionable insights to the engineering team.
- Leading test cell operations for Calibration Challenge, as the assigned cell operator.

Corporate Engineer Intern, Testing & Validation

May 2023 – August 2023

Caterpillar Inc., Mossville, IL

- Optimized tradeoffs for a C9.3 engine between fuel consumption and emission particulate.
- Facilitated scheduling and repair of an urgent order C9 engine head.
- Supported a lead test engineer throughout an oil aeration test on a C13D diesel engine.
- Developed relationships with successful leaders through continuous informational interviews.
- Presented Calibration Challenge final optimization results to the entire division (50+ viewers).
- Attended training classes aimed at developing engineering principles around diesel engines.

Machine Operator

May 2022 – December 2023

Morton Industries, Morton, IL

- Taught new operators how to work machines safely and successfully.
- Efficiently ran manufacturing machines: bending, pressure/leak, laser cutting, and drill press.

Class Projects

Go-Cart Frame Case Study - Ansys Workbench	2024
Upper Body Orthotic - Manufacturing Process & Equipment	2023

Activities/Achievements

President's List	2024
Entrepreneurs Committee Founder & President	2024
Aviation Senior Design Assistant	2023
Calibration Challenge Champion	2023
Academic All-Conference Baseball	2023
Coaching Lessons	2022-Present

