Rohan Marshall

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SUMMARY

Entry level **Thermal Engineer** with academic experience applying thermal and fluid science principles to system analysis, component evaluation, and product focused engineering projects. Mechanical engineering coursework and laboratory assignments built practical skill with analytical methods, experimental evaluation, engineering standards, **technical documentation**, and structured reporting. Thermal Systems Lab work involved evaluating thermal concepts, reviewing **component performance**, documenting observations, and presenting findings for faculty review. Capstone work added experience with heat transfer analysis, design alternatives, testing methods, engineering requirements, and technical decisions made with project teammates. Clear reports and concise presentations helped translate technical results into useful engineering discussions. This foundation supports thoughtful analysis, dependable documentation, and collaborative contributions within **environmentally focused product development** teams.

EDUCATION

Bachelor's Degree in Mechanical Engineering

2026

Purdue University GPA: 3.7

West Lafayette, IN

Coursework: *Thermal sciences, fluid mechanics, heat transfer, engineering analysis*

TECHNICAL SKILLS

- **Thermal Analysis:** Heat transfer, thermal systems, component performance
- **Fluid Mechanics:** Fluid flow, fluid properties, system behavior
- **Experimental Methods:** Laboratory testing, observations, performance evaluation
- **Engineering Documentation:** Technical reports, test methods, result summaries
- **Engineering Standards:** Standards application, requirements review, compliance documentation
- **Analytical Methods:** Engineering calculations, design comparison, system analysis
- **Mechanical Engineering:** Mechanical systems, component evaluation, product development
- **Technical Communication:** Research presentations, faculty review, team discussions
- **Thermal Laboratory Work:** Thermal concepts, laboratory assignments, experimental results
- **Engineering Decision Support:** Technical decisions, analytical tools, design alternatives

SKILLS

- Thermal Sciences
- Fluid Mechanics
- Engineering Analysis
- Technical Documentation
- Experimental Methods
- Mechanical Engineering
- System Performance
- Component Evaluation
- Engineering Standards
- Technical Decisions
- Heat Transfer
- Laboratory Methods
- Technical Reporting
- System Analysis
- Product Development

EXPERIENCE

Thermal Engineering Student Researcher

January 2026 - Present

University Thermal Systems Lab

Columbus, IN

Supports supervised thermal systems research through analytical evaluation, laboratory observation, standards based assignments, technical reporting, and presentations for faculty and student audiences. Work connects thermal science concepts with component performance and practical engineering decisions.

- Analyzed thermal system concepts through engineering fundamentals and laboratory methods for faculty review.
- Documented experimental observations in concise technical summaries that supported research discussions.
- Applied **engineering standards** to classroom and supervised research assignments involving thermal performance.
- Evaluated **component performance** through analytical calculations and structured comparison of results.
- Prepared technical content explaining thermal science concepts for student research sessions.
- Presented findings during student research sessions, connecting calculations with observed system behavior.

Thermal Analysis Team Member

September 2025 - December 2025

Mechanical Engineering Capstone Project

Columbus, IN

Contributed to a supervised mechanical engineering capstone focused on thermal analysis, design comparison, testing documentation, and technical communication. Supported team decisions by organizing requirements, reviewing alternatives, and presenting project conclusions to academic reviewers.

- Developed system analysis documentation for a thermal engineering project with defined design requirements.
- Applied heat transfer concepts to compare design alternatives during team analysis sessions.

- Created testing reports that documented methods, observations, and technical conclusions for reviewers.
- Reviewed engineering requirements with project teammates before selecting analytical approaches.
- Used analytical tools to support **technical decisions** during thermal design evaluation.
- Presented project outcomes to academic reviewers through concise technical explanations and visual summaries.

PROJECTS

Thermal Component Evaluation Study **December 2025**

Connected heat transfer concepts with practical design questions by comparing component performance, recording testing methods, and presenting conclusions for academic review.

Thermal Systems Laboratory Analysis **January 2026**

Explored system behavior through laboratory observation and engineering calculations, creating documentation that helped faculty and student researchers discuss performance.

LEADERSHIP & AWARDS

- Mechanical Engineering Academic Recognition, Purdue University, 2026
- Thermal Systems Research Presentation Recognition, University Thermal Systems Lab, 2026
- Capstone Technical Communication Recognition, Mechanical Engineering Program, 2025

CERTIFICATIONS

- Engineering Analysis Foundations Certificate 2026
- Thermal and Fluid Sciences Laboratory Certificate 2026

PROFESSIONAL AFFILIATIONS

- University Thermal Systems Lab, student research participant
- Purdue University Mechanical Engineering Capstone Team, thermal analysis contributor

LANGUAGES

- English (Native)
- Spanish (Intermediate)

ADDITIONAL INFORMATION

Work Status : Authorized to work in United States. No sponsorship required.

REFERENCES

AVAILABLE ON REQUEST