Asher Rice

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SUMMARY

Dedicated Mechanical Engineer with over 5 years of experience in thermal-fluid systems and mechanical design. Proven ability to manage large-scale engineering projects while ensuring compliance with regulations and standards. Focused on fluid mechanics, heat transfer, and process piping design, complemented by hands-on CAD software experience for modeling and documentation. Adept at collaborating with stakeholders and fostering effective communication, which enhances system reliability through innovative solutions and proactive project management. Seeking to leverage expertise in a challenging role that supports operational excellence.

EXPERIENCE

Mechanical Engineer
January 2022 - Present

Innovative Engineering Solutions *Chicago, IL*

Oversaw design and implementation of fluid cooling systems across large projects. Responsible for achieving safety compliance while enhancing performance via precise calculations in thermal analysis and fluid dynamics. Collaborated closely with multidisciplinary teams to align project timelines and deliverables effectively.

- Led design efforts for advanced fluid cooling systems, prioritizing efficiency and regulatory adherence.
- Executed thermal analysis and fluid flow calculations to optimize overall system performance.
- Created technical specifications for fabrication, working with materials such as stainless steel and PVC.
- Provided mentorship to junior engineers, guiding project execution and troubleshooting processes.
- Initiated system upgrade projects aimed at improving operational efficiency within teams.
- Documented all project phases rigorously, enhancing knowledge transfer for future endeavors.

Junior Mechanical Engineer
June 2018 - December 2021

Precision Mechanical Group *Aurora, IL*

Contributed significantly to the development of thermal systems utilized in precision engineering applications, particularly focused on accelerator technologies. Collaborated extensively to support testing initiatives, developing practical designs informed by rigorous analysis.

- Assisted senior engineers in designing and testing innovative thermal systems crucial to accelerator technology advancement.
- Performed fluid mechanics assessments and optimized piping layouts using AutoCAD for improved functionality.
- Engaged collaboratively during project management practices, focusing on workforce estimation and scheduling.
- Drafted comprehensive progress reports to present to stakeholders, incorporating feedback for improvement.
- Explored machine shop practices to foster greater breadth of understanding in mechanical principles.
- Participated actively in educational pursuits to stay current with evolving industry standards.

LEADERSHIP & AWARDS

- Certified Engineering Technician (CET)
- Recipient of the Innovation in Engineering Award at Innovative Engineering Solutions

EDUCATION

Bachelor's Degree in Mechanical Engineering
2026

University of Illinois at Chicago GPA: 3.8 *Chicago, IL*

Coursework: *Fluid Mechanics, Thermodynamics, Heat Transfer, Piping Design*

CERTIFICATIONS

- Certified Engineering Technician (CET) 2026
- Lean Six Sigma Green Belt Certification 2025

TECHNICAL SKILLS

- **CAD Software:** AutoCAD, SolidWorks, Revit
- **Thermal Analysis Tools:** ANSYS, COMSOL, MATLAB
- **Project Management Tools:** Trello, Microsoft Project, Asana
- **Communication Tools:** Slack, Microsoft Teams, Zoom
- **Documentation Standards:** ISO 9001, ASME Y14.5, ANSI
- **Quality Assurance Techniques:** Testing Protocols, Regulatory Compliance, Root Cause Analysis

- **Piping Design Software:** PipeFlow, CAEPIPE, Aspen HYSYS
- **Fluid Dynamics Modeling:** CFD Analysis, SimScale, Flow Simulation
- **Engineering Hardware:** Pressure Test Equipment, Thermal Imaging Cameras, Torque Wrenches
- **Reporting Tools:** Microsoft Excel, Tableau, Power BI

SKILLS

- Fluid Mechanics
- Thermodynamics
- Heat Transfer
- Piping Design
- CAD Software
- Project Management
- Engineering Documentation
- Collaboration
- Thermal Calculations
- Cooling Systems
- Testing Protocols
- Material Selection
- System Troubleshooting
- Design Specifications
- Stakeholder Engagement
- Analysis Techniques

PROFESSIONAL AFFILIATIONS

- Member of the American Society of Mechanical Engineers (ASME)
- Active contributor to local engineering community initiatives

LANGUAGES

- English (Native)
- Spanish (Proficient)

ADDITIONAL INFORMATION

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

REFERENCES

AVAILABLE ON REQUEST