

Aria Heath

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SUMMARY

Chemical Engineering graduate passionate about advancing process optimization in chemical manufacturing. Demonstrated proficiency in analyzing and enhancing production systems to boost quality and efficiency. Strong ability to collaborate with teams and manage projects from inception through execution while ensuring alignment with safety and operational standards. Proficient in using AutoCAD for engineering design and maintaining precise project documentation. Eager to contribute knowledge and drive improvements at ChemTech Solutions, making a lasting impact within the organization.

EDUCATION

Bachelor of Science in Chemical Engineering

2026

University of Illinois GPA: 3.5

Champaign, IL

Coursework: Thermodynamics, Process Design, Fluid Mechanics, Chemical Reaction Engineering

TECHNICAL SKILLS

- **Software Tools:** AutoCAD, Microsoft Excel, Visio, PowerPoint, Dynamics
- **Project Management Tools:** MS Project, Asana, Trello
- **Engineering Principles:** Material Balances, Thermodynamics, P&ID Design, Fluid Mechanics, Chemical Dynamics
- **Quality Assurance Techniques:** HAZOP, FMEA, Control Plans
- **Data Analysis Software:** MATLAB, Minitab, Python
- **Research Methodologies:** Literature Review, Experimental Design, Data Visualization
- **Safety Protocols:** Risk Assessment, Process Hazard Analysis, Lockout/Tagout
- **Networking Protocols:** TCP/IP, Modbus, HART
- **Sustainability Practices:** Life Cycle Assessment, Sustainable Manufacturing, Green Chemistry
- **Manufacturing Systems:** Batch Processing, Continuous Flow Systems, Lean Manufacturing

SKILLS

- Process Engineering
- Data Analysis
- P&ID Review
- Flow Diagram Analysis
- AutoCAD
- Problem Solving
- Hazard Assessment
- Visio
- Microsoft Excel
- Team Collaboration
- Research
- PowerPoint
- Project Management
- Process Safety Management
- Technical Writing
- Statistical Analysis

EXPERIENCE

Process Engineering Intern

January 2026 – May 2026

University Project

Champaign, IL

Engaged as a Process Engineering Intern, focused on developing practical solutions in chemical manufacturing settings through collaboration with faculty and industry partners. Spearheaded design initiatives aimed at improving plant processes, emphasizing critical thinking and hands-on application.

- Supported dynamic process improvement projects by collaborating closely with a diverse team, producing tangible enhancements in system efficiency.
- Contributed to defining project specifications aligned with goals and best practices, facilitating adherence to safety regulations.
- Analyzed detailed process data, generating actionable insights that led to digital presentations showcasing strategic recommendations for productivity enhancements.
- Reviewed intricate flow diagrams and engineering specs, deepening understanding of complex process systems which bolstered teamwork effectiveness.
- Conducted research efforts focused on process safety, assisting in designing comprehensive safety protocols for chemical operations.
- Collaborated successfully with peers to present findings, honing skills in communicating technical concepts clearly to varied audiences.

Chemical Engineering Research Assistant

September 2025 – December 2025

Academic Research

Champaign, IL

Actively contributed as a Chemical Engineering Research Assistant dedicated to conducting experimental analysis and gathering data to support innovation in chemical processing. Worked on optimizing product yield and establishing robust methodologies for quality control.

- Executed experimental procedures on various chemical processes, utilizing statistical analysis to derive patterns affecting yield and quality.
- Developed technical reports and visual presentations conveying research results—an experience enhancing confidence in stakeholder communication.
- Participated extensively in brainstorming sessions, adjusting strategies based on group input to maximize project potential.
- Leveraged AutoCAD tools for drafting designs and engineering diagrams, translating abstract ideas into visual representations.
- Maintained records and collaborated with a talented researcher team to publish groundbreaking findings in a peer-reviewed journal.
- Focused on identifying innovative tactics to improve both safety measures and overall process efficiency.

LEADERSHIP & AWARDS

- Dean's List, University of Illinois, Fall 2024 - Spring 2026
- First Place, Engineering Design Competition, University of Illinois, 2025

CERTIFICATIONS

- Lean Six Sigma Green Belt 📅 2026
- Fundamentals of Process Safety Management 📅 2025

PROFESSIONAL AFFILIATIONS

- Member, American Institute of Chemical Engineers (AIChE), 2024 - Present
- Volunteer, University STEM Outreach Program, 2023 - Present

LANGUAGES

- English (Native)
- Spanish (Intermediate)

ADDITIONAL INFORMATION

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

REFERENCES

AVAILABLE ON REQUEST