

Tyler Howard

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SUMMARY

Chemical Engineer with over 5 years of experience optimizing manufacturing processes and leading equipment improvement projects. Proven track record in supporting production operations, enhancing efficiency, and collaborating with product development teams to successfully launch new products. Skilled in utilizing engineering principles to troubleshoot complex issues and drive continuous improvement in dynamic environments. Strong communicator passionate about innovation within critical industries such as power generation and advanced technologies. Demonstrated capability in overseeing project planning and executing strategies that align with organizational goals.

EXPERIENCE

Chemical Engineer

January 2022 - Present

Innovative Solutions Inc.

Postville, IA

Manage chemical engineering initiatives to enhance daily production operations at Innovative Solutions. Oversee multiple projects, ensuring efficient integration of new equipment and processes into the current system. Collaborate closely with cross-functional teams on product launches while maintaining a strong focus on both safety and quality improvements.

- Provide critical chemical engineering expertise to enhance daily production operations, resulting in improved efficiency and output quality.
- Lead process improvement initiatives that increased manufacturing reliability, achieving a substantial reduction in downtime.
- Oversee the planning and execution of new equipment installations and upgrades, ensuring smooth transitions and integration into existing workflows.
- Collaborate with cross-functional teams to successfully transition numerous new products from development to full-scale manufacturing.
- Troubleshoot complex production equipment issues using root cause analysis to implement effective corrective actions.
- Develop and maintain comprehensive process flow diagrams and P&ID diagrams for safe operational practices.

Process Engineer

June 2018 - December 2021

Tech Innovations LLC

Davenport, IA

Focused on optimizing production processes while managing various safety and quality enhancement projects. Worked collaboratively across departments to ensure continuous improvements aligned with business needs.

- Applied chemical engineering principles to day-to-day operations, leading to an increase in throughput.
- Managed process improvement tasks that contributed to a significant reduction in material waste during productions.
- Conducted hazard analyses and safety assessments for compliance with industry standards.
- Engaged in lab work to validate R&D outputs, fostering innovative practices in product development.
- Utilized structured problem-solving techniques to resolve process inefficiencies.
- Documented best practices and standardized operating procedures to enhance continuous improvement initiatives.

Junior Chemical Engineer

May 2016 - May 2018

Greenfield Manufacturing

Iowa City, IA

Assisted senior engineers in the development and optimization of chemical processes. Engaged directly with project support efforts and maintained high safety standards.

- Supported development and optimization of manufacturing processes, contributing to improved production capabilities.
- Collaborated with lead engineers to evaluate production data, identifying areas for enhancements.
- Drafted P&ID diagrams and relevant process documents for safe operational protocols.
- Participated in audits and safety inspections, ensuring compliance with safety regulations.
- Played key roles in implementing new processes and equipment that aided product launches.
- Gained hands-on experience providing solutions to troubleshoot equipment issues.

LEADERSHIP & AWARDS

- Certified Chemical Engineer (CCE) – 2021
- Six Sigma Green Belt – 2020

EDUCATION

Bachelor's Degree in Chemical Engineering

2016

University of Iowa GPA: 3.5

Iowa City, IA

Coursework: Thermodynamics, Fluid Mechanics, Reaction Engineering, Process Control

CERTIFICATIONS

- Certified Chemical Engineer (CCE) 📅 2021
- Six Sigma Green Belt 📅 2020

TECHNICAL SKILLS

- **Engineering Tools:** AutoCAD, MATLAB, Aspen Plus
- **Project Management Tools:** Trello, Asana, Microsoft Project
- **Laboratory Equipment:** Autoclaves, Spectrophotometers, Gas Chromatographs
- **Process Simulation Softwares:** HYSYS, CHEMCAD, MATLAB Simulink
- **Data Analysis Tools:** Excel, Minitab, Python
- **Communication Tools:** Slack, Microsoft Teams, Zoom
- **Standards & Protocols:** ASME, ASTM, ISO 9001
- **Safety Compliance Technologies:** HazOps, FMEA, LOPA
- **Process Optimization Methods:** Lean Manufacturing, Six Sigma, Kaizen
- **Documentation Tools:** Confluence, JIRA, SharePoint

SKILLS

- Process Design
- Safety Assessments
- Equipment Installation
- Production Operations Support
- P&ID Diagrams
- Cross-functional Collaboration
- Quality Assurance
- Lab Work
- Root Cause Analysis
- Material Testing
- Hazard Analysis
- Engineering Principles
- Project Management
- Continuous Improvement
- Manufacturing Efficiency

PROFESSIONAL AFFILIATIONS

- Member of AIChE - American Institute of Chemical Engineers, 2019 - Present.
- Volunteer with Engineers Without Borders, supporting infrastructure projects abroad.

LANGUAGES

- English (Native)
- Spanish (Intermediate)

ADDITIONAL INFORMATION

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

REFERENCES

AVAILABLE ON REQUEST