

Weston Guerra

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SUMMARY

Chemical Process Engineer with over 8 years of experience in optimizing chemical processes. Track record includes enhancing efficiency, safety, and product quality through innovative improvements and strict adherence to regulations. Experience encompasses conducting process simulations and providing crucial technical support to cross-functional teams. Known for actively mentoring plant personnel while driving continuous improvement initiatives. Strong collaborative skills foster teamwork, ultimately achieving significant operational goals.

EXPERIENCE

Senior Chemical Process Engineer

June 2022 - Present

EcoChem Industries

Chicago, IL

Guided design and optimization of advanced chemical processes, streamlining operations to enhance product yield while minimizing waste. Instrumental in overseeing cutting-edge technologies that push industry boundaries and align with regulatory requirements.

- Designed efficient processes ensuring improved product yield, reducing operational costs by 15%
- Conducted comprehensive process simulations and heat balance calculations supporting scale-up activities from piloting to full production
- Collaborated closely with R&D and operations teams, leading to enhanced safety recognized across multiple sectors
- Reviewed and prepared P&IDs and flow diagrams, guaranteeing compliance with best practices in accordance with industry benchmarks.
- Mentored junior engineers, facilitating their understanding of process engineering principles, resulting in team upskilling.
- Led HAZOP studies identifying potential hazards and ensuring regulatory compliance.

Chemical Process Engineer

March 2018 - May 2022

ChemFlow Solutions

Peoria, IL

Delivered process-oriented solutions focusing on operational efficiencies and successful project execution timelines for capital projects. Worked collaboratively to define process requirements aligning vendor selections with company objectives.

- Formulated and revised standard operating procedures (SOPs), yielding significant enhancements in leadership best practices and integrity percentages across the facility
- Regularly monitored performance indicators, proposing measures improving yields notably by 10% through accurate risk analysis.
- Provided critical technical assistance during troubleshooting phases, resulting in rapid resolution of production issues, fostering a culture of innovation.
- Contributed as a core participant in defining requirements and assessing bids for multimillion-dollar projects, focusing meticulously on budgetary adherence.
- Captured and articulated essential KPIs directed to managerial frameworks, suggesting actionable plans paving the way for operational excellence.
- Ensured exhaustive EHS compliance leading to an impeccable zero-incident record during tenures.

Junior Chemical Engineer

January 2015 - February 2018

GreenEnergy Corp

Bloomington, IL

Supported senior engineers in various capacities pioneering exciting innovations around reliable production methodologies within the organization.

- Assisted in the fundamental design of innovative chemical processes alongside real-time simulations targeting increasing efficiency metrics
- Actively engaged in preparing pivotal documentation such as P&IDs, empowering production teams to excel in compliance applications.
- Facilitated analytical evaluations through data collection to detect progress trends needing immediate attention or innovation.
- Engaged heavily in safety reviews, rising awareness towards hazard assessments outcomes relative to regulatory finishes witnessed primarily during process deployment.
- Delivered instructional sessions bolstering plant personnel proficiency surrounding process engineering fundamentals significantly boosting workplace morale.
- Localized teamwork practices to drive success pivoting on mutual growth and performance enhancement resulting in qualified best practices.

LEADERSHIP & AWARDS

- Recipient of the Outstanding Young Engineer Award, Illinois Engineering Society, 2021
- Dean's List, University of Illinois, 2012-2014

EDUCATION

Bachelor of Science in Chemical Engineering

2014

University of Illinois GPA: 3.5

Champaign, IL

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

CERTIFICATIONS

- Professional Engineer (PE) License 📅 2020
- OSHA 30-Hour General Industry Certification 📅 2019

TECHNICAL SKILLS

- Simulation Software:** Aspen Plus, MATLAB, COMSOL
- Project Management Tools:** Trello, Asana, Microsoft Project
- Chemical Safety Standards:** OSHA, EPA, NFPA
- Process Control Systems:** PLC, DCS, SCADA
- Data Analysis Tools:** Excel, Minitab, R
- Engineering Design Software:** AutoCAD, SolidWorks, Inventor
- Training & Development Tools:** WebEx, Moodle, LinkedIn Learning
- Quality Assurance Frameworks:** ISO 9001, Six Sigma, CMMI
- Collaboration Platforms:** Microsoft Teams, Slack, Zoom
- Documentation Software:** Visio, Word, SharePoint

SKILLS

- Process Optimization
- Chemical Engineering
- HAZOP Studies
- EHS Compliance
- Technical Documentation
- Process Simulations
- Team Leadership
- Safety Reviews
- Operational Efficiency
- Project Management
- Regulatory Standards
- Data Analysis
- Performance Monitoring
- Risk Assessment
- Compliance Audits

PROFESSIONAL AFFILIATIONS

- Member, American Institute of Chemical Engineers (AIChE)
- Participant, Illinois Energy Summit

LANGUAGES

- English (Native)
- Spanish (Proficient)

ADDITIONAL INFORMATION

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

REFERENCES

AVAILABLE ON REQUEST