



Rafael Escobar

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SUMMARY

Results-driven Senior Production Engineer with over 4 years of experience in optimizing manufacturing operations and enhancing production efficiency. Proven expertise in troubleshooting complex plant issues and implementing effective solutions that drive safety and compliance. Strong collaborator with a background in chemical engineering, skilled at translating business goals into actionable production plans. Committed to fostering a culture of safety, sustainability, and innovation within the manufacturing sector.

EXPERIENCE

Senior Production Engineer

March 2025 - Present

Innovative Manufacturing Solutions

Chattanooga, TN

In this role, leveraged technical skills to improve plant productivity and operational efficiencies while ensuring compliance and safety for quality productions.

- Spearheaded initiatives focused on plant optimization, achieving a significant boost in overall production efficiency through innovative process changes.
- Collaborated across teams to ensure seamless alignment of production goals, guaranteeing timely deliveries and effective resource utilization.
- Analyzed Key Process Indicators (KPIs) and alarm histories, successfully identifying and resolving operational bottlenecks, enhancing workflow.
- Served as a mentor to junior engineers, instilling knowledge on performance measurement tools, which elevated team capabilities and operational insights.
- Partnered with specialists to implement advanced technologies, improving product quality and minimizing waste across production lines.
- Conducted in-depth investigations into root causes of production disruptions, introducing corrective measures that effectively reduced downtime.

Production Engineer

January 2024 - February 2025

Advanced Chemical Systems

Memphis, TN

Managed daily operations while focusing on plant efficiency, troubleshooting issues, and supporting safety protocols to uphold high standards.

- Oversaw the functioning of plant equipment, assuring optimal operating conditions consistent with safety standards.
- Contributed to practical scheduling of operations through collaboration, maximizing resource use and enhancing inventory flow.
- Reviewed logs and alarm data collaboratively to pinpoint problems proactively, initiating maintenance driven by data insights.
- Supported efforts on process enhancements leading to noticeable reductions in operational costs without sacrificing quality or efficiency.
- Participated in an on-call emergency response rotation, displaying reliability and commitment to maintaining sustained operations.
- Facilitated training sessions regarding compliance and safety procedures, promoting a strong safety culture among staff members.

LEADERSHIP & AWARDS

- Certified Six Sigma Green Belt
- Certified Safety Professional (CSP)

EDUCATION

Bachelor's Degree in Chemical Engineering

2024

University of Tennessee GPA: 3.8

Knoxville, TN

Coursework: Fluid Dynamics, Data Analysis, Process Design, Safety Compliance

CERTIFICATIONS

- Certified Six Sigma Green Belt 📅 2025
- Certified Safety Professional (CSP) 📅 2025

TECHNICAL SKILLS

- **Manufacturing Software:** AutoCAD, MATLAB, Visio
- **Reporting Tools:** Power BI, Tableau, Excel
- **Data Analysis Tools:** Minitab, SQL, Python

- **Process Automation:** PLC Programming, SCADA, DCS
- **Compliance Standards:** OSHA, EPA Regulations, ISO 9001
- **Problem-Solving Methodologies:** Lean Manufacturing, Kaizen, DMAIC
- **Risk Assessment Frameworks:** FMEA, HAZOP, Bowtie Analysis
- **Safety Management Systems:** SDS, JSA, Permit To Work
- **Engineering Principles:** Fluid Mechanics, Thermodynamics, Materials Science
- **Supply Chain Tools:** ERP Systems, JIRA, Trello

SKILLS

- Process Optimization
- Safety Compliance
- Collaboration Skills
- Compliance Enforcement
- Technical Problem-Solving
- Project Management
- Performance Metrics
- Technology Implementation
- Data Analysis
- Operational Efficiency
- Supply Chain Interaction
- Production Planning
- Manufacturing Technologies
- Root Cause Analysis
- Equipment Troubleshooting
- Inventory Management

PROFESSIONAL AFFILIATIONS

- Member of Society of Manufacturing Engineers
- Active participant in National Association of Professional Engineers

LANGUAGES

- English (Native)
- Spanish (Proficient)

ADDITIONAL INFORMATION

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

REFERENCES

AVAILABLE ON REQUEST