

Rafael Escobar

Senior Production Engineer

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STRENGTHS



Analytical Thinking

Consistently assess situations using data, leading to profound decisions and improvements across operational challenges.



Team Collaboration

Frequent partner in cross-functional projects; peers often seek insight, demonstrating proven networking and collaborative strengths.



Technical Acumen

Appreciate mechanics behind process automations; built proficiency ensures adoption of best practices and advanced technologies.



Process Improvement

Driven mindset promotes methodical evaluations and adjustments, yielding tangible results that positively influence operational workflows.



Safety Focused

Dedicated to maintaining a safe working environment which fosters accountability and prioritizes well-being for all team members.

SKILLS

Process Optimization

Technical Problem-Solving

Data Analysis

Manufacturing Technologies

Safety Compliance

Project Management

Operational Efficiency

Root Cause Analysis

Collaboration Skills

Performance Metrics

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

Innovative Manufacturing Solutions 📅 March 2025 - Present 📍 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

Advanced Chemical Systems 📅 January 2024 - February 2025 📍 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

University of Tennessee 🎓 GPA: 3.8 📅 2024 📍 Knoxville, TN

Supply Chain Interaction

Equipment Troubleshooting

Compliance Enforcement

Technology Implementation

Production Planning

Inventory Management

LANGUAGES

English Native

Spanish Proficient

MY CAREER



● Senior Production Engineer at Innovative Manufacturing Solutions (1.4 Years)

● Production Engineer at Advanced Chemical Systems (1.1 Years)

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

PROFESSIONAL AFFILIATIONS

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

ADDITIONAL INFORMATION

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

REFERENCES

AVAILABLE ON REQUEST