

Mike DeSignore

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Chemical Engineer

Process Design & Control | Instrumentation & Automation | Project Engineering

Chemical engineering professional with 14 years experience in process design and control, personnel management, customer interaction and development, interaction with government agencies (FDA, NYDEC, EPA, OSHA, local authorities), plant engineering oversight and overall plant management. Small-scale lab product development, scale up / plant development work and production operations management.

- Programmable logic controller (PLC) programming
- Health, Safety & Environmental (HS&E) initiative implementation
- Laboratory Research & Development (R&D) to full scale production development
- Process instrumentation, including pH, temp, pressure, heating / cooling, steam, pump systems & automation
- Continuous improvement
- Quality Assurance
- Production efficiency
- Regulatory compliance
- AMA Management Training
- Lean Manufacturing Principles

Technical & Professional Abilities

- PLC & HMI programming on Panasonic platform
- PLC programming on Allen Bradley RS Logix 500
- IDEC PLC / HMI Programming and Installation
- ISO 9001:2015, OSHA 10hr

Process Experience

Design and Control of Effluent System

- Re-designed process and developed PLC control system to better manage in-house effluent processing
- Focus on metals and pH control, and nitrate (NO₃) segregation
- Worked with outside engineering firm to develop a process to meter high NO₃ feed into the Glens Falls wastewater treatment system

Metal Refining System

- Designed process and developed PLC control system for recovery of metal promoter stream from ethylene oxide catalyst refining process
- Brought process from lab scale to full scale production
- Co-inventor on Pub. No.: WO/2009/075937

Silver Coated Copper Processing

- Co-developed laboratory process for silver coated copper flake
- After qualification, the process was scaled-up to full scale production (up to 50 tons/year)
- In addition to making the product, quality control testing was also established
- Implemented solvent recovery system that reduced overall plant usage by approximately 40%

Silver Oxide Processing

- Oversaw installation and implemented process for large-scale production of wet silver oxide
- Process specifically designed to control and measure input vs. output silver
- Scheduled and managed production after process was in place
- Implemented duplicate processes in UK and West Virginia production facilities

Education

Bachelor of Science in Chemical Engineering, Clarkson University - Potsdam, NY
Bachelor of Science in Chemistry, minor: Mathematics, SUNY Geneseo - Geneseo, NY