

Emily Carter

Chemical Process Control Engineer

CONTACT

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United States, Houston, TX

EDUCATION

2013 - 2015

Master of Science in Chemical Engineering

University of Texas at Austin, United States, TX

2009 - 2013

Bachelor of Science in Chemical Engineering

Texas A&M University, United States, TX

Certified Automation Professional (CAP)

International Society of Automation, Certification Date: August 2021

PROFESSIONAL SUMMARY

Results-oriented Chemical Process Control Engineer with over 9 years of experience in designing and optimizing production processes. Proficient in implementing control strategies and ensuring compliance with safety regulations.

EXPERIENCE

Senior Process Control Engineer 2019 - Now Dow Chemical Company, United States, Houston, TX

- Lead the development and implementation of advanced process control strategies for various chemical manufacturing processes.
- Collaborate with cross-functional teams to identify process bottlenecks and develop solutions, improving overall efficiency by 20%.
- Utilize MATLAB and Python for data analysis and model predictive control (MPC) applications.
- Conduct root cause analysis for process deviations, implementing corrective actions to enhance safety and quality.

Process Control Engineer 2015 - 2019 BASF Corporation, United States, Houston, TX

- Designed and implemented control loops for batch and continuous processing, improving process stability and yield.
- Performed process simulations and optimizations using Aspen Plus and HYSYS software.
- Developed training materials and conducted workshops for operators on control system operations and troubleshooting.

SKILLS

Advanced Process Control (APC)	★★★★★
Model Predictive Control (MPC)	★★★★★
Control System Design and Tuning	★★★★★
Data Analysis and Visualization (MATLAB, Python)	★★★★★
Process Simulation Software (Aspen Plus, HYSYS)	★★★★★
Regulatory Compliance (OSHA, EPA)	★★★★★