ADA RAVENSCROFT

Chemical Process Engineer

CONTACT

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Atlanta, GA
LinkedIn

EDUCATION

Bachelor of Science
Chemical and Biomolecular Engineering
Georgia Institute of Technology
2010 - 2017
Atlanta, GA

SKILLS

CHEMCAD
ANSYS Fluent
DeltaV
AutoCAD
Aspen Plus
NumPy and Pandas
DNV Phast
DWSIM
SPI
Primavera P6

WORK EXPERIENCE

Chemical Process Engineer

Southern Company
2019 - current / Atlanta, GA

- Designed and optimized chemical processes using CHEMCAD, leading to a 24% increase in production yield and ***saving $1.2 million in raw material costs annually***.
- Conducted detailed simulations in ANSYS Fluent to optimize heat exchangers, reducing energy consumption by 14% and achieving annual savings of $324K.
- Coordinated with procurement to identify cost-effective suppliers, leading to a 32% reduction in procurement costs.
- Achieved 98% compliance with environmental regulations by implementing process modifications and equipment upgrades.

Process Engineer

Honeywell
2017 - 2019 / Atlanta, GA

- Tapped NumPy and Pandas to analyze large datasets and identify process bottlenecks, resulting in a 24% increase in throughput.
- Reduced production costs by optimizing process parameters and implementing lean methodologies.
- Spearheaded thorough safety assessments using DNV Phast, resulting in a ***36% reduction in safety incidents***.
- Led a cross-functional team to achieve a 13% increase in product yield through process modifications and data analysis.

Process Engineer Intern

BASF Corporation
2017 - 2018 / Atlanta, GA

- Assisted in the analysis of production data, identifying bottlenecks and inefficiencies, and proposed solutions that led to a 22% increase in overall throughput.
- Prepared a comprehensive technical report detailing the design process and calculations.
- Co-designed and implemented a process control system using MATLAB to maintain temperature within tight tolerances.
- Contributed to designing a distillation column using Aspen HYSYS, achieving a ***19% increase in separation efficiency***.