TANAY DESAI

PROCESS DESIGN ENGINEER

CONTACT

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SKILLS

Aspen Plus/ Hysys (SS/ Dynamic)

CHEMCAD, HTRI, SiNet

HAZOP, QRA

VBA, Python, Javascript, HTML

Advanced Excel, SAP, Power BI

SQL, MongoDB

Problem Solving Adaptability

Critical Thinking Handling

Leadership

EDUCATION

B. Tech, Chemical Engineering
SVNIT, Surat
2011 – 2015
CGPA – 7.40

AWARDS

Suggestion Awards
GNFC
2018, '19, '20

RESUME OBJECTIVE

Chemical process designer with 6.5 year of experience of process design and modification, rating and design of various unit operations, preparing datasheets, material and energy balances. Dexterous in various steady state and dynamic simulation environments. Comfortable with managing and analyzing large datasets to generate various management reports and to calculate various production planning scenarios. Looking for the opportunity to lead a process design team and expand my knowledge working with advanced design and optimization methods and tools.

EXPERIENCE

PROCESS DESIGN ENGINEER

GNFC, Bharuch, GJ / March 2016 - Present

- More than 25 Process modifications and optimizations to increase production, operational reliability or safety.
- Carried out frequent monitoring of critical process equipment like compressors, steam turbines, Heat exchangers
- Prepared a scheme tracking module to gauge department's efficiency and performance monitoring
- Participated in HAZOP study of various plants and modification schemes.
- 3 major projects involving process design and simulation, design of various heat exchanges, pumps, compressors, safety valves, utility networks, distillation columns etc., datasheets preparation of all equipment and instruments, energy and material balance, P&ID preparation
- Various product scenario, shut-down cost calculations and specific consumption calculations to aide management in strategic decision-making
- Created a steam turbine efficiency calculation module using IAPWS-97 standard and implemented it on DCS to help process monitor efficiency of various turbines in real time