



# Nikita Mokashi

Professional Process Engineer with excellent technical, analytical, problem-solving and communication skills combined with strong process engineering and multi-discipline base, demonstrated by 9+ years of experience in basic and detailed design of plants. Familiar with Gas Treatment, Ethylene technology, LNG Regasification, Fertilizers technology. International experience in commissioning of plant.

## WORK EXPERIENCE

### Process Engineer

Technip Energies, Abu Dhabi, UAE | 07/2022 - Present

- Working on detailed engineering of Sour Gas Processing Plant
- Developed Process Flow Diagram (PFD), Piping and Instrumentation Diagram (P&ID)
- Performed two phase and three phase gas-liquid separator sizing
- Safety Valve Scenario Identification, Calculations using API 520/521, ASME B 31.5 & Section VIII standards and Datasheet preparation
- Supported the commercial department for preparing technical proposals

### Senior Process Engineer

Technip Energies, Mumbai, India | 07/2018 – 02/2022

- Worked on Basic and Detailed engineering of Ethylene (Liquid and Gas Cracker), VGO Hydrotreating Plant and LNG Regasification Plant
- Handled various process activities for Process Design Packages (PDPs), Front-End Engineering Design (FEED) and EPC projects.
- Worked as Area/Unit lead for various projects within the team
- Prepared Process Design Basis / Philosophies
- Prepared Heat and Material Balance (HMB) reports
- Developed Process Flow Diagram (PFD), Piping and Instrumentation Diagram (P&ID), Material Selection Diagram (MSD)
- Pump Hydraulics and Line Hydraulics Calculations
- Prepared Process Datasheets and Instrument Datasheets
- Prepared Cause & Effect (C&E) Matrix and Control logic, Line List
- Interface coordination with client and multi-disciplinary teams
- Prepared start-up and operating manuals
- Participated in HAZOP study of Plant with Client and Internal team
- Ensuring all HS&E standards for preparation of process deliverables
- Trained junior engineers in the use of process tools

### Process Engineer

Shroff Engineering Consultants, Mumbai, India | 01/2017 – 06/2018

- Detailed Engineering of DMPAT, Chlorination and Specialty Chemicals Plant
- Discussion and Interface with vendors for evaluation of technical quotation of process equipment
- Formulated technical bid evaluation report and Recommendation
- Participated in 3D model review, P&ID review, Piping Isometric review
- Communicated effectively with Client, answering questions and concerns, Supported engineering contractors during design and construction phase
- Supervised Vendor equipment Inspection, Vendor drawing review/approval
- Participated in Software FAT for Control Logic Testing of Plant

## Soft Skills

- Aspen Hysys (Intermediate)
- Pro-II (Intermediate)
- FlareNet (Intermediate)
- HTRI (Intermediate)
- Pipenet (Intermediate)
- MS Projects (Intermediate)
- AutoCAD (Intermediate)
- MS office (Advanced)
- Bluebeam Revu (Advanced)
- MySep (Intermediate)

## Core Competencies

- Process Engineering
- Design and Development
- Project management and Coordination
- Team management



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28 May, 1993

## Strengths

- Flexible
- Detail and Result Oriented
- Quick learner
- Time Management

## Social Activities

- Conducted Educational camp in Rural part of India
- Active member of Zep Pratishthan (NGO)

## Process Engineer

Armaco Chemical Process Systems, Mumbai, India | 07/2014 – 01/2017

- Participated in commissioning of Drilling Starch Plant
- Optimized and improved existing design of Phosphoric Acid, Single superphosphate and Di-calcium phosphate plants
- Generated new technology for Phosphoric Acid plant by Hemihydrate Process
- Estimated Man-hour calculation for various projects, costing of project

## EDUCATION

### Bachelor of Engineering – Chemical

S.S. Jondhale College of Engineering, Mumbai, Result- 79.73%

### Higher Secondary

R.J. College, Mumbai, Result- 84.50%

## PROJECTS

### Abu Dhabi National Oil Company (ADNOC), Abu Dhabi, UAE

- Front end engineering (FEED) of Hail & Ghasha Development and CO2 Recovery Plant – Handled Sour gas Inlet facility area, Sour Offgas and Sweet gas Compression area, CO2 recovery unit
- Basic engineering Design for Energy Optimization schemes for Ruwais Refinery

### ExxonMobil Chemical Company, China

- Process Design Package for Ethylene Plant (Liquid Cracker) - Handled Quench and Cracked gas compression area

### Essar Bulk Terminal Ltd, India

- Detailed engineering of LNG Regasification Plant – Handled Boil Off gas compression area

### Chevron Philips Chemical Company, Texas

- Process Design Package for Ethylene Plant (Gas Cracker) – Handled Cold Fractionation area

### Bharat Petroleum (BPCL), India

- Basic engineering of VGO Hydrotreater Plant

### DuPont de Nemours, Inc.

- PSV and Flare Study for Sabine River Ethylene Plant

### United Phosphorus Ltd, India

- Detailed Engineering of DMPAT Plant

### Localline LLC, Oman

- Detailed Engineering of Drilling Starch Plant

## ACHIVEMENTS

- Awarded in recognition of Exceptional Performance and Delivery against schedule in Technip Energies
- Awarded for Debutante of the year 2017 in Shroff Engineering Consultant
- Ranked 5th in Bachelor of Chemical Engineering in University of Mumbai