

# VISHAL KHANDAGALE

(Process and Project Engineer)

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## OBJECTIVE

Process and project engineer with hands-on experience in heat exchanger design, P&ID development, and chemical process simulation, seeking to contribute technical expertise and project execution skills in the chemical and process industries.

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## AREA OF INTEREST

Process Design Engineering

Project Engineering

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## SKILLS

- Line sizing for liquids and gases, including pressure drop calculations
- Pump sizing, calculations, and datasheet preparation
- Control Valve Sizing
- Heat exchanger design and thermal rating
- Distillation column design and performance evaluation
- Familiarity with PFD and P&ID development
- Knowledge of valve types and their applications
- Process simulation and design using industry tools
- Proficient in Aspen HYSYS, Aspen EDR, and HTRI
- Working knowledge of Microsoft Office Suite and basic AutoCAD

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## PROFESSIONAL EXPERIENCE

### ➤ Process & Project Engineer

**Flaminia Ecarb India Pvt. Ltd., Pune**

**Oct 2023 – Present**

Ecarb is a globally recognized provider of engineered solutions in critical process equipment and turnkey systems such as HCl synthesis units, dilution, and cooling systems. Projects serve industries including specialty chemicals, textiles, agrochemicals, chloro-alkali, and fertilizers.

#### **Key Responsibilities:**

- Preparation and revision of PFDs and P&IDs for systems
- Pump hydraulic calculations, piping pressure drop analysis, and NPSH evaluation
- Preparation of equipment datasheets, line lists, and instrument datasheets
- Simulation and thermal design of heat exchangers using HTRI and Aspen EDR
- Cross-functional coordination in the team to provide engineering support throughout project lifecycle
- Direct communication and coordination with clients from project initiation to handover
- End-to-end project handling including engineering, client interaction, and execution

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## INTERNSHIP EXPERIENCE

### ➤ Internship Trainee

**Oil and Natural Gas Corporation (ONGC), Uran – Navi Mumbai**

**July 2022 – Aug 2022**

In-plant training focused on the operation of crude oil processing units including the ETP Unit, Co-generation Unit, and Crude Stabilization Unit (CSU).

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**Key Learnings:**

- Exposure to process equipment: cooling towers, distillation columns, pumps, compressors, reactors, storage tanks, valves, and piping systems
- Understanding of upstream oil & gas processing and utility systems

➤ **Process Engineer Intern**

**Attaquant Enterprises Pvt. Ltd., Pune**

*Sept 2022 – Dec 2022*

Contributed to process engineering design and documentation for chemical plant projects.

**Key Responsibilities:**

- Developed PFDs and P&IDs, and performed line and equipment sizing
- Conducted mass and energy balance calculations for process systems
- Supported material take-off, client coordination, and preliminary process simulations
- Worked on design aspects of heat exchangers and distillation columns

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**CERTIFICATIONS/ WORKSHOPS**

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**HTRI Training course**

Key Skills: Proficiency in HTRI Software

Design and Optimization of Heat Exchangers

**Aspen HYSYS user Certification**

Key Skills: Process Simulation with Aspen HYSYS

Simulation Software Proficiency

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**EDUCATION**

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**B. Tech in Chemical Engineering**

**Vishwakarma Institute of Technology, Pune | 2023**

CGPA: 8.6 /10

**Diploma in Chemical Engineering**

**P.V.P.I.T, Budhagaon | 2020**

Percentage: 89.9 %

**SSC State Board**

**Savitribai Phule Prashala Jr. College, Sonand.| 2016**

Percentage: 76 %

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**LANGUAGES FLUENCY**

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- English
- Marathi
- Hindi

**DECLARATION**

I hereby declare that the information provided above is true and correct to the best of my knowledge and belief.

**Vishal Khandagale**

**Place: Pune, Maharashtra**