

## Siddhant Ajit Gandhi

Branch: Chemical Engineering

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Date of Birth: 03<sup>rd</sup> April 1994

Akluj, Maharashtra.



**OBJECTIVE** - To utilize technical skill for achieving the target and delivering the best performance in an esteemed organization.

### EDUCATION

| EXAM / DEGREE                      | NAME OF INSTITUTE   | UNIVERSITY           | CPI/PERCENTAGE |
|------------------------------------|---|----------------------|----------------|
| B. Tech-<br>(Chemical Engineering) | Vishwakarma Institute of<br>Technology                            | SPPU – MH            | 65.27          |
| Diploma<br>(Chemical Engineering)  | Shri Bhagubhai Mafatlal<br>Polytechnic, Vile Parle<br>(W), Mumbai | MUMBAI<br>UNIVERSITY | 60             |
| 10 <sup>th</sup>                   | Gulmohar English<br>Medium School.                                | S.S.C. BOARD         | 86.91          |

### TECHNICAL SKILLS

- Heat Exchanger Thermal Design, Rating & Adequacy check using HTRI®.
- Pump, Line Hydraulics calculations.
- Hands-on work experience in MS Office Suite and AutoCAD 16, 18.
- CFD simulation using ANSYS Fluent (Beginner level).
- Process Engineering Deliverables - PDS, MDS, etc.
- Process Modelling using Aspen Plus (Beginner level).

### WORK EXPERIENCE

**1. Organization Name: ACME Process System Private Limited.**

Joining date: 10th June 2019

Location: MIDC Bhosari, Pune.

Designation: Process & Application Engineer

Job description:

- Sizing, Selection & Designing different types of Agitators according to the process requirement.
- Cost estimation of Agitator assembly along with Vessel.
- Preparing Techno-commercial offers for different Vessels & Agitators.
- Co-ordination with different disciplines for smooth execution of the project.
- Solving Technical queries of clients and delivering the best solutions.
- Generation of Sales order & releasing SO in the SAP.
- Releasing a bought-out list to the purchasing team for the Project/Equipment.
- Co-ordinating with the Design team & taking approval on the GAD.

- Co-ordinating with the manufacturing team for providing stage-wise updates to clients.
- Co-ordinating with the Quality team for In-house Inspection reports / TPI reports.
- Co-ordination with accounts team for the payment follow-up.
- Familiar with MOC like MS, CS, SS304/304L, SS316/316L, SS317L, SS904L, Hastelloy C-22/C-276.
- Site visits to understand Customer requirements.
- Preparation of PDS & MDS for the Process Equipment.

## INTERNSHIP & IN-PLANT TRAINING

- **Aker Powergas Pvt. Ltd., Mumbai** *(June – December 2018)*

Working as a Technical and functional role in assisting a Lead Chief Engineer for a Crude Distillation Unit & Vacuum Distillation Unit (Oil & Gas) project. Involved in a Pre-Bid engineering domain with a focus on executing Process Engineering deliverables such as P&IDs, PDS, Line list, Pump Hydraulic & Control valve calculations, Adequacy check and thermal rating of exchangers, Line sizing, Vendor document review, etc. In accordance with all the above tasks Co-ordination with other Disciplines is the key to the smooth execution of the Project.

- **Shiv Shakti Process Equipment Pvt. Ltd., Mumbai** *(June - November 2015)*

Worked as an In-plant trainee, learned about Design, fabrication details along with cost estimation for different types equipments also had some experience technical sales and marketing, resolving technical queries.

- **Camlin Fine Sciences Ltd., Mumbai** *(June - November 2012)*

Worked as an In-plant trainee, performing activities like overall plant study from raw material to product packaging, preparing P&ID, study of different unit operations, performing different calculations, studied the role of different departments in the organization.

## ACADEMIC PROJECTS

- **Carbon capture using Ionic Liquid** *(January – April 2019)*

This project is aimed to simulate an Ionic Liquid (IL) – based CO<sub>2</sub> capture model to capture CO<sub>2</sub> from the flue gas using two promising CO<sub>2</sub> absorbents, [bmim][BF<sub>4</sub>] and [bmim][PF<sub>6</sub>] on Aspen Plus. The project also aims to prove that the IL – based CO<sub>2</sub> capture process is more competitive than the traditional MEA-based CO<sub>2</sub> capture process.

- **Synthesis & Characterization of Copper (I) Complex** *(March – May 2018)*

The Copper (I) complexes with tetrahedral co-ordination geometry have received special attention due to its low toxicity, low-cost advantage and relatively abundant resources compared to more precious metals systems such as Re(I), Ir(III), Pt(IV) Au(I). We focused on the catalyst property showed by the copper (I) complex. Copper (I) tetrahedral complex was prepared by using derivatives of aminobenzamidazol and PPh<sub>4</sub> as ligands. The Study of NMR, IR & TGA was done as well as catalytic property was checked by using the Cu (I) complex as a catalyst in the amination of aryl halide.

## **CERTIFICATIONS**

- Two days workshop on “Aspen plus” in Melange ’18, VIT, Pune.
- Three days workshop on “MATLAB” by IEEE Student branch, VIT, Pune.

## **EXTRA CURRICULAR ACTIVITIES**

- College Ambassador for ChemTECH World Expo 2019.
- Event head of “Chevolution” in Melange ’18.
- Event Co-head of “Tech-crossword” in Melange ’17.

## **ACHIEVEMENTS & AWARDS**

- 2<sup>nd</sup> position in The National Conference of Energy and Environment 2018.
- 2<sup>nd</sup> position in Handball at the District level.
- 2<sup>nd</sup> position in Air Rifle Shooting at the District level.
- 2<sup>nd</sup> position in Fencing at District level and participated in state-level competition.

## **OTHER INTEREST/HOBBIES**

- Listening to Music
- Mountaineering
- Reading Novels

## **PROFESSIONAL SKILLS**

- Excellent English/Marathi/Hindi communications skills (verbal and written)
- Good team player & Excellent Interpersonal skills
- Good analytical skills and problem solver
- Willingness to learn and progress
- Time management