





Varad Shivkumar Nagargoje
Department of chemical engineering
Institute of Chemical Technology

21CHE151
Final Year B. Chem.Engg
Date of birth: 18th March 2003

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Career Objective: Motivated Final year Chemical Engineering student with knowledge and skills in chemical processes, and process engineering. Seeking an entry-level opportunity to apply academic knowledge, project experience, and problem-solving skills in a professional environment, with a focus on sustainable solutions and innovative technologies."

Educational Qualifications (Pre-University)

Examination	Institution (name, place, state of Institution)	%Marks
S.S.C. (2019)	Little Flower High School, Aurangabad, Maharashtra	86.4
H.S.S.C. (2021)	Sarosh junior college of science, Aurangabad, Maharashtra	93.3

Educational Qualifications (University)

Bachelor of Chemical engineering, Institute of Chemical Technology, Mumbai, Maharashtra							
Semester	Year	SGPA	CGPA	Semester	Year	SGPA	CGPA
I	2022	6.8	6.8	V	2023	8.5	7.82
II	2022	7.77	7.28	VI	2024	7.77	7.81
III	2023	7.79	7.46	VII	2024	8.3	7.89
IV	2023	8.22	7.65	VIII	2025	-	-

Additional Research / Work Experience:

1. Production Intern, Aether industries Limited, Surat, Gujarat.

-May 2024 to August 2024

- Designed and studied an HCL gas synthesis plant for my IPT Project, which included designing of a Bubble cap tray Distillation Column, vertical Knockout drum and Heat Exchangers and drawing of P&ID. It also includes literature survey about the chemistry of the feed, the working of process, and the thermodynamics of the process.
- Studied various other chemical manufacturing processes and Unit operations in the Plant. Had an Brief overview of DCS systems for both Yokogawa and Siemens.

2. Summer Research intern, Indian Institute of Technology Goa (IIT Goa)

- June 2023 to July 2023

- Studied Nanoparticles and Analysed alumina nanoparticle size distribution in liquid suspension, for its effect on reducing fuel emissions. Analyzed the particle size distribution with solvents like water, and ethanol, and also tested it with and without SPAN 80.
- Also assisted the PhD student in his experiments who was my Internship Guide.



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Projects:

1. Designing of dry HCl gas synthesis plant:

-May 2024- August 2024

- The project was about designing dry HCl gas synthesis plant. It was a part of IPT project at Aether Industries Limited. It included designing of a Distillation column, Sizing of Heat exchangers, sizing of Vertical knockout drum, and drawing a P&ID diagram of the plant. First the chemistry behind the Process was studied. Also, for that literature survey for VLE data was done.

2. Designing of an Extractive Distillation column for the separation of an Azeotropic mixture of Methanol Toluene

- Apr 2023 - May, 2023

- The project was a part of the Subject Course CET 1401-Chemical Engineering Operations (CEO). It involved designing of an Extractive distillation column for the separation of an Azeotropic mixture of Methanol and Toluene.

3. Design of Plant for manufacturing of Piperonal

- Sep 2024- Present

- This Project is my Homepaper Topic which is part of my curriculum. It involves a Literature survey, Process selection, equipment selection and design, Economics, and Material and energy balance calculations.

Positions of Responsibilities:

1. Event Head of Bizz-Quiz, ESUMMIT'24, Ecell ICT

- Feb 2024 – March 2024

- Planning and execution of the whole event, which included PR, making Word documents, presentation, etc.

2. Rubik Cube Event Head, ICT sports saga

-March 2024- April 2024

- Planning and Execution of the whole event.

3. Resources and Logistics Coordinator, ICT Sports Saga -

Sept 2023- April 2024

- Managed the R&L work and also did the PR for the ICT Marathon, the Flagship event of ICT sportsaga

Extra-Curricular (Certificates Verified):

- Completed an online internship program based on the Topic of Petroleum refinery engineering and chemical process technology from 'The Indian Institute of Chemical Engineers (IICChE).
- Completed Certificate course on 'Practice of Chemical Technology' from UDCT Alumni Association (UAA).
- Completed an online Training program based on Bio methanation and biogas technology from 'The Centre for Science and Environment (CSE) New Delhi.'

Computer Knowledge:

1. MS Office- Word, Excel, PowerPoint
2. Programming – Visual Basic, Basic C
3. Software- MATLAB, DWSIM, Korf Hydraulics

Language Skills:

- English, Hindi, Marathi

Interests and Hobbies:

Reading, Poetry writing, Watching Movies, Listening to Music.