

Varsha Katakbound

Chemical Engineer

Curious and driven Chemical engineer with knowledge of distillation processes and hydraulics, appreciate with multiple chemical experiments and academic projects with the excellent practical use of the knowledge in various projects. Proficiency with modeling and simulation software such as ChemCAD, ASPEN HYSYS & willing to work in challenging & creative environment.

Contact

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Email

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Address

Latur, Maharashtra

Education

2023 8.08 CGPA

Bachelor of Chemical Engineering

SGGSIE&T Nanded, Maharashtra

2019 65.08 %

HSC (12th)

Janta Vidhya Mandir, Murud, Latur

2017 90.20 %

SSC (10th)

Janta Vidhya Mandir, Murud, Latur

Skills

- AutoCAD
- NX CAD
- Catia V5 R20
- Chem CAD
- C language
- Auto desk Inventor

Certifications

Title: Material Processing

Source : Georgia institute of technology

Title: Nanotechnology and Nano sensors

Source : Israel Institute of Technology

Title: Nanofabrication and Nanotech

Source : Duck University

Title : 'Autodesk Fusion 360

Integrated CAD/CAM/CAE

Internships

○ Arti Drugs Ltd, Vapi, Gujrat

Intern

- Performed duties in accordance with all applicable standards, regulatory and guidelines to promote safe working environment.
- Worked with budget department to determine estimated operation expenses.
- Monitored assembly areas of production and control the screwing rejection.
- Worked in to process R&D, provide stability studies, scale up and optimization and process validation of commercial manufacturing.
- performed 3 process calculations including the material balancing, mass balancing and the energy balancing.
- Operated various software's and equipments like pumps, compressors etc.

○ Pioneer Distilleries Dharmabad, Maharashtra

Trainee

- Worked as in plant trainee in a alcohol production chemical industry.
- Operated various software's and equipments like pumps, compressors etc.
- Selection of the operating pressure of a distillation column, which is a most important design decision as it may have major impact on the phase equilibrium.

Projects

◆ **Title : Production of Biodiesel from Jatropha seeds (Dec 22-March 23)**

- Role : Team Head
- Short Description : Oil extraction & Transesterification, Oil refining along with the bit saponification and providing the renewable energy supplies for power and transportation.

◆ **Title : Syringe Robot (Sept 19 - Jan 20)**

- Role : Team Member
- Short Description : It is mechanical arm, usually programmable with similar functions to the human arm. The arm may be the sum total of mechanism or may be the part of more complex robot.

◆ **Title : Silica from paddy husk (Dec 21- March 22)**

- Role : Single member project
- Short Description : Sol gel method is used : a more chemical method (wet chemical method) for the synthesis of various nanostructures, especially metal oxide nanoparticles. In this method, the molecular precursor (usually metal alkoxide) is dissolved in water or alcohol and converted to gel by heating and stirring by hydrolysis/alcoholysis.

Achievements

- Training and placement cell member
- Class ambassador.
- Worked as a volunteer & main coordinator in National level technical event of our college Pragma.
- Worked as a volunteer & joint coordinator in National level sport event of our college zenith