

Hrishikesh Mukesh Mhatre

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Career Objective

To explore the new areas and work in a dynamic stable organisation . Work for an organisation which provides me the opportunity to improve my skills and knowledge to growth along with the organisation objective.

Education

M.Tech in Chemical and Biotechnology

Savitribai Phule Pune University,Pune

CGPA- 9 (Until Sem 3)

Pune, Maharashtra

2021 - Current

B.E in Chemical Engineering

Gharda Institute of Technology,Lavel

CGPA- 8

Lavel, Maharashtra

2017 - 2021

12th (Central Board of Secondary Education, CBSE)

Muljibhai Mehta International School, Virar

Percentage- 70%

Virar, Maharashtra

2015 - 2017

10th (Indian Certificate of Secondary Education, ICSE)

National English School, ICSE

Percentage- 83%

Virar, Maharashtra

2003 - 2015

Academic Projects

Study of Paper Based Microfluidic Direct Ethanol Fuel Cell

Task: Performance optimization, Membrane synthesis, Fuel cell Development, Green Energy

- In this work, Experimental working parameters were subjected to different operating components to find a optimum working Microfluidic DEMFC.
- This study helps analysis of individual cell and find solution to macroscopic problems of Ethanol battery.
- Combination of two optimized fuel cell- Ethanol Battery.

Studies in Hydrogen Generation using Waste Aluminium and Water

Task: On demand Hydrogen generation at room temperature

- In this work, in-situ, on demand and economic hydrogen generation was conducted.
- Problem associated with cost, storage, transportation and energy generations was effectively addressed.
- Waste Aluminum and Water was used as raw material for generation of pure Hydrogen gas room temperature.

Segregation of different Granular Materials subjected to External Mechanical Vibrations .

Task: Heap Analysis

- Granular materials of different sizes and dimensions were subjected to external mechanical vibration.
- Problem associated with cost, storage, transportation and energy generations was effectively addressed.
- **Major: Paper selected for presentation at 8th International Conference on Discrete Elemental Methods, The Netherlands 2019**

Experience/ Internships

Six Sigma OSIP-2020, IChE

Student Intern

Kolkata, West Bengal

August 2020- October 2020

- Did Six Sigma Yellow Belt Program from basics till course advancements
- Hands on with Statical tools
- Sigma level enhancement using dedicated Project.

Rashtriya Chemical and Fertilizers LTD

Thal, Maharashtra

Vocational Trainee

December 2020

- Had a detailed study of Methyl Amines Plant, Di Methyl Formamide Plant, Di Methyl Acetamide Plant, Carbon Monoxide Plant, Argon Recovery Plant and Formic Acid Plant.
- The study Included learning of various aspects of plant like operating parameters equipment design analysis, safety measure, economic viability of product., etc

Maritime Research Centre, Pune

Pune, Maharashtra

Student Intern

December 2020

- Had very brief and deep exposure to diverse topics concerning to India such a geopolitics, biodiversity index, maritime strategies, ship building industries, Dock and Port management and surveillance, Python and R programming, etc

Skills

- Fuel Cell Technologies
- Membrane Synthesis
- Green Energy Production
- Experimental Research
- Good Lab Practice
- Problem Solving

Languages

- English
- Marathi
- Hindi