



**Meet Patoliya**  
Roll No.: 20BCH019  
B. Tech  
Chemical Engineering  
Pandit Deendayal Energy University, Gandhinagar

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## OBJECTIVE

- To secure employment with a reputable company, where I can utilize my skills and offer the highest quality of services and make a positive difference to the organization.

## EDUCATION

<b>- Pandit Deendayal Energy University, Gujarat</b>	2024
B. Tech in Chemical Engineering	CGPA: 8.52
<b>Shree Swaminarayan Gurukul Vidyalaya, Surat</b>	2020
Gujarat Secondary & Higher Secondary Education Board	percentage : 52 %
<b>- Shree Swaminarayan Gurukul</b>	2020
Joint Entrance Examination (Main) National Testing Agency	PR: 85.0622
<b>- Shree Swaminarayan Gurukul</b>	2018
Gujarat Secondary & Higher Secondary Education Board	Percentage: 86.66 %

## COMPREHENSIVE PROJECT

**- R.K. Synthesis LTD. Unit: GIDC-Ahmedabad** **Tenure : 03<sup>rd</sup> Jan – 24<sup>th</sup> May**

**Place: GIDC-Ahmedabad**

- Led a comprehensive project at RK Synthesis LTD focused on optimizing furnace efficiency, titled "Furnace Efficiency Optimization."
- Conducted meticulous calculations of furnace efficiency using both direct and indirect methods.
- Developed a sophisticated computer program within MATLAB software to streamline efficiency assessments.
- Identified critical efficiency points through rigorous analysis and testing, highlighting areas for potential improvement within the furnace system.
- Demonstrated commitment to enhancing operational effectiveness and showcased proficiency in leveraging technology for advanced problem-solving in chemical engineering.

## INTERNSHIP

**- Shree Digvijay Cement Company Unit: Sikka, Jamnagar** **Tenure : 22<sup>nd</sup> May – 22<sup>nd</sup> June**

**Place : Sikka, Jamnagar**

- Completed a one-month internship at Shree Digvijay Cement Company in Sikka, Jamnagar, gaining hands-on experience in the production department as part of chemical engineering training.
- Acquired knowledge of cement manufacturing processes and contributed to improving production methods.
- Ensured workplace safety and environmental compliance, emphasizing the importance of maintaining a safe and eco-friendly work environment.
- Collaborated with experienced professionals to understand safety protocols and environmental protection measures in cement manufacturing.
- Developed a deeper understanding of the role of chemical engineers in promoting workplace safety and environmental sustainability in industrial settings.

**- Civic & Social Service Internship**

Social Intern- Waste management

## INDUSTRIAL VISITS

**- Organization Name: Indian Farmers Fertilizer Cooperative (IFFCO), Kalol** **Date : 15<sup>th</sup> April 2022**

**Place : Kalol, Ahmedabad**

- Received training on safety-related aspects for chemical industries, including the proper usage of equipment such as fire extinguishers, manual alarm systems, SCBA (self-contained breathing apparatus), and water jet systems.
- Gained hands-on experience observing a robot capable of preparing dye compositions, reducing the need for manual intervention in the dye-making process.

- **Organization Name:** Jay Chemicals

**Date :** 25<sup>th</sup> June 2022

**Place :** Ahmedabad

- Received training on safety-related aspects for chemical industries, including the proper usage of equipment such as fire extinguishers, manual alarm systems, SCBA (self-contained breathing apparatus), and water jet systems.
- Gained hands-on experience observing a robot capable of preparing dye compositions, reducing the need for manual intervention in the dye-making process.

## **PERSONAL PROJECTS**

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- **Production And Manufacturing of Green Ammonia**

June-Nov 2023

University Project

Developed a model using SAM and Collected data For Production.

## **TECHNICAL SKILLS AND INTERESTS**

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**Tech:** Aspen Plus, Word, Power point, Excel

**Soft Skills:** Communication

**Areas of Interest:** Reading, Media, Human Psychology

**Core Skills :** Problem Solving, Handling Worst Situations, Management, Leadership

## **ACHIEVEMENTS**

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- Secured Good Rank in Two of Government exam and got certificates for it.

May- 2018

## **CERTIFICATES**

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- **NPTEL** Basics of Construction Material

30<sup>th</sup> April2023

- Adobe Photoshop Guide

03<sup>rd</sup> Nov 2022

- Python Basics Course

22<sup>nd</sup> Aug 2023