

PRASHANTA KUMAR ROY

GUWAHATI, INDIA, 8724821874, prasantdps79@gmail.com

A highly motivated and detail-oriented Chemical Engineering graduate with a solid foundation in process design, heat transfer, and reaction engineering. Skilled in applying analytical and problem-solving skills to develop innovative solutions in chemical processes. Strong communication and collaboration abilities, with a proven track record of working effectively in diverse environments. Seeking to contribute to a dynamic engineering team and drive sustainable practices in the chemical industry.

EXPERIENCES

1. Indian Oil Corporation Limited, Bongaigaon Refinery • Bongaigaon • India

Industrial Training Internship

07/2023 – 08/2023

- Observed operations personnel performing tasks to gain an understanding of their duties.
- Acquired knowledge about crude oil and its products and by-products along with various process equipment used in the refinery.

2. NEHU, Shillong • Shillong • India

Summer Academic Internship

08/2022 – 09/2022

- Nanomaterial Drug Delivery to make cancer treating drugs.

3. Internshala Trainings • India

Mathworks MATLAB

10/2021 – 11/2021

- Introduction, Foundations, Mathematics, Functions, Plotting, Programming and Case Studies.
- Completed a final project module assigned securing 90% marks.

4. Team Everest NGO • India

Curriculum Development

09/2021 - 10/2021

- Developed curriculum and learning materials to increase comprehension.
- Developed sets of questions on English Grammar.

5. TEQIP-3 • Kokrajhar • India

3D Printing and Designing

09/2021 – 09/2021

- Acquired foundational knowledge in designing 3D models using Fusion 360 software.

6. NABA NIRMAN TRUST • Bongaigaon • India

Social Internship

07/2021 – 07/2021

- Helped bringing awareness about cleanliness of streets.

SKILLS

Chemical Reaction Engineering

Process Design

Heat Transfer

Instrumentation and Process Control

Mass Transfer

Fluid Mechanics

MS Office

Material Balance Calculations

C and C++ Language

Mathworks MATLAB

EDUCATION

1. BINESWAR BRAHMA ENGINEERING COLLEGE, KOKRAJHAR • Assam • India

B.Tech Chemical Engineering (2020-2024)

CGPA 8.32 (First Class with Honours)

Under Assam Science and Technology University, Assam

2. DELHI PUBLIC SCHOOL, DHALIGAON • Assam • India

CLASS XII (2020)

88.8 %

3. DELHI PUBLIC SCHOOL, DHALIGAON • Assam • India

CLASS X (2018)

89.8 %

B.TECH PROJECT WORK

Topic: Extraction of Silica Nanoparticles from Fly Ash

Conducted a project focused on the extraction of silica nanoparticles from coal fly ash, a byproduct from NTPC, Salakati. The process involved water washing, drying, and chemical treatment using a NaOH solution. Key steps included heating in a magnetic stirrer with a condenser, separation of supernatants, titration with HCl, and filtration. Final silica nanoparticle samples were characterized through FTIR (Fourier Transform Infrared Spectroscopy) and SEM (Scanning Electron Microscopy) to analyze their structural and compositional properties. This project demonstrated proficiency in laboratory techniques, chemical handling, and nanoparticle characterization methods.

LANGUAGES

1. English
2. Assamese
3. Hindi