

# AKHIL MOHAN

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## SUMMARY

Motivated and versatile chemical engineer with excellent leadership quality. Capable of tackling any adverse situations and a highly reliable team player. Experience in research and development as well as process simulations.

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## EXPERIENCE

### INTERNSHIP ON CHLORINE PRODUCTION

Travancore Cochin Chemicals

December 2021 - December 2021, IN, KERALA, KOCHI

- Explored production of chlorine.
- Overseeing caustic soda lye and flakes production.
- Quality control.

### STUDENT INTERN

INDUSTRIAL TRAINING

January 2021 - January 2021, IN, KERALA, KOCHI

- Monitored plastic and polymer production.
- Reviewed ceramic synthesis.

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## PROJECTS

### SYNTHESIS OF PLATINUM GROUP METAL FREE ELECTROCATALYST FOR PROTON EXCHANGE MEMBRANE WATER ELECTROLYSER

Saintgits College of Engineering • September 2022 - June 2023

- Developed a platinum group metal-free electrocatalysts for a proton exchange membrane water electrolyser through the use of a series of chemical reactions.
- Characterized the morphology and topography of the catalyst.
- Oxygen evolution performance of the catalyst was analysed.

### EXPERIMENTAL INVESTIGATION OF DIESEL-OIL BLENDS USING FLASH AND FIRE POINT

Saintgits College of Engineering • September 2022 - January 2023

- Conducted experiments to determine the flash and fire point of diesel-oil blends.
- Theoretical study of emission characteristics of various blends was carried out.

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## EDUCATION

### Bachelor of Technology in Chemical Engineering

Minor in Mechanical Engineering • Saintgits College of Engineering • Kottayam, Kerala • 9.14 CGPA

### Higher Secondary Education

NSS HSS Kidangoor • Kottayam, Kerala • 2019 • 97%

### High School Education

NSS HSS Kidangoor • Kottayam, Kerala • 2017 • 95%

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## SKILLS

DWSIM

MatLab

Microsoft office

**Critical thinking**

**Problem-solving**

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## **CERTIFICATIONS**

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### **Matlab Onramp**

Mathworks • 2022

Certified in a course that provides a brief introduction to the MATLAB UI.

### **ADVANCED MACHINING PROCESS**

IIT GUWAHATI • 2022

Certified in advanced machining process

### **Natural Gas Engineering**

IIT Guwahati • 2021

Certified in Natural gas engineering

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## **ACHIEVEMENTS**

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### **Recipient of undergraduate project grant from Indian Institute of Chemical Engineers**

Saintgits College of Engineering

- Obtained UG project grant from a pool of all over India

### **Recipient of Second prize for Paper presentation**

Kongu Engineering College • Syllogic 2K23

- Obtained second prize in paper presentation for the paper "SYNTHESIS OF PLATINUM GROUP METAL FREE ELECTROCATALYST FOR PROTON EXCHANGE MEMBRANE WATER ELECTROLYSER"

### **Best outgoing student**

Saintgits College of Engineering

- Obtained the award for the best outgoing student from Department of Chemical Engineering for the 2019-2023 batch
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## **LANGUAGES**

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**ENGLISH**

**HINDI**

**MALAYALAM**