



Farogh Abbas

Chemical Engineering

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B. Tech (4<sup>th</sup> Year)

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## OBJECTIVE

To obtain a challenging position in a high-quality engineering environment leveraging my chemical engineering knowledge, resourceful training experience and analytical skills to add value to the organisational operations.

## ACADEMIC QUALIFICATIONS

EXAMINATION	University	Institute	Year	CPI/%
Graduation	RGPT	RGPT	2021*	8.88**
Intermediate/+2	CBSE	Nalanda Academy, Kota	2017	93.8
Matriculation	CBSE	St. Mary's Eng. High School, Jamshedpur	2015	10.0

\*expected \*\*up to 6<sup>th</sup> Semester

## INTERNSHIP /ACADEMIC PROJECTS

### **Winter Internship : Study of viscous fingering (Saffman-Taylor Instability) in Shear thinning Liquid**

[Dec 19'-Jan 20']

Guide: *Dr. Sourav Mondal*

*IIT Kharagpur*

- Aim at studying the various factors affecting the formation of fingers while pumping lesser viscous fluid into more viscous fluid and reducing the fingers.
- The project was particularly important to increase the efficiency of EOR.

### **Summer Internship : To study the performance of electrostatic tar precipitator used in By-Product Plant**

[May-July 19']

Guide: *Mr. Arnab Chakrabarti*

*Tata Steel Ltd, Jamshedpur*

- Aim at studying the various factors affecting the separation of minute particles in ESP in Coke and By-Product Plant.
- Understood the working of Industrial ESPs and Coke Gas production.
- Worked on increasing the efficiency of separation process.

### **Understanding the interactions of nano-metal particles with carbon nano-dots in solid matrix and solution phase with emphasis on energy transfer**

[August 18'- Present]

Guide: *Dr. Debashis Panda*

*Nano-Bio Spectro Lab, RGPT*

- The work includes preparation of carbon nano-dots by hydrothermal method and also preparation of thin polymeric film and their fabrication with nano-dots and metallic nano-particles.
- Then the properties and its changes are analyzed by various state of the art techniques like UV- Spectrophotometry, Fluorimetry, FT-IR, UTM Strength Testing and Time Correlated Single Photon Counting.
- Currently working on finding the possible applications of the property changes in White LED Generation and Heterogeneous Catalysis.

## Obstacle Avoiding Robot

Guide: Science and Technical Committee, RGIPT

[Nov 17']

Winter School 2017

- Led a team that worked on an autonomous robot which avoided obstacles using IR signals.
- Aimed at developing a technology to prevent car accidents during Foggy Climate.
- The project was praised to be path-breaking and innovative by Smt. Sushma Rath (then Joint Secretary, Ministry of Petroleum & Natural Gas).

### AWARDS AND ACHIEVEMENTS

- Cleared **JEE Mains** and **JEE Advanced 2017**, with 90.5 percentile.
- Recipient of **Academic Excellence Award** for Academic session 2018-19 for securing batch **rank 1** in 3<sup>rd</sup> semester.
- Recipient of **RGIPT's Meritorious Scholarship** for the year 2018.
- Recipient of **Tata Steel's Millennium Scholarship for Excellence** for 4 consecutive years.
- Secured Grade **A+** in technical courses like **Fluid Mechanics and Dynamics, Heat and Mass Transfer\***, **Mass Transfer Operations-1, Heterogenous Reaction Engineering, Material Science**.
- **Ranked 5<sup>th</sup>** in the batch of 60 students, i.e. in the top 10%.
- **1<sup>st</sup> State Rank** and **20<sup>th</sup> Olympiad Rank** in Silverzone's **International Science Olympiad, 2013**.
- Consecutively got under **400 AIR** in **Narayana's All India Scholarship and Aptitude Test**, 13' and 14'.

\*Batch Topper of Course

### TECHNICAL SKILLS

#### Software skills

- ANSYS(Basic), AutoCAD, COCO Simulator with ChemSep(Basic), Microsoft Office, MS Excel (Advanced) with VBA, Origin and Adobe Photoshop.

#### Computer languages

- C, HTML

#### Electronics

- Arduino IDE

#### Online Course

- Computational Fluid Dynamics and Finite Element Method using ANSYS on EDX.

### POSITION OF RESPONSIBILITY

- **Joint Secretary**, AIChE RGIPT Student Chapter [19'-20']
- **Teaching Assistant**, of Fresher's batch in Modern Physics and Thermodynamics [19'-20']
- **Publicity Head**, AIChE RGIPT Student Chapter [18'-19']
- Managed the post of **HR and PR Manager** of Science and Technical Committee, RGIPT [18'-19']
- **Volunteer Teacher** in ARPAN Social Service Club, taught students of government schools for over 60 teaching hours. [17'-18']

### TRIPS, WORKSHOPS AND CONFERENCES

- Attended 3 day long **Industrial Trip to IOCL Panipat Refinery** organized by Department of Chemical Engineering, RGIPT in January 20'
- In 5 students selected for and attended **Academia-Industry Interface Program** at IOCL Allahabad Terminal 2019.
- Workshop on **Internet of Things** organized by Science and Technical Committee, RGIPT during Winter-School 2017.