

# Abeer Fatima

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## ● ABOUT ME

I am a recent Chemical Engineering graduate with a strong foundation in process engineering, thermodynamics, and chemical reaction engineering, skilled in utilizing advanced software tools such as MATLAB, Aspen HYSYS, and Ansys for process design and optimization. I have the ability to apply theoretical knowledge to practical problems through hands-on projects and internships and I am passionate about developing sustainable and innovative solutions in the chemical industry.

## ● EDUCATION AND TRAINING

21/09/2020 – 14/06/2024 Islamabad, Pakistan  
**BS CHEMICAL ENGINEERING** Pakistan Institute of Engineering and Applied Sciences(PIEAS)  
**Website** <https://www.pieas.edu.pk/>

## ● DIGITAL SKILLS

ASPEN PLUS (CHEMICAL ENGINEERING PROCESS SOFTWARE) | Matlab/Simulik | MS. Office Programs: Word, Excel, Powerpoint, Outlook, Project, Visio, OneDrive, OneNote, ToDo | Ptc Creo 2 | Begginer HTML/CSS | Ansys software basic level | Python Language - Basic knowledge

## ● WORK EXPERIENCE

07/08/2023 – 02/09/2023 Faisalabad, Pakistan  
**IBRAHIM FIBERS LIMITED(IFL) INTERNEE**

-Gained knowledge of unit operations involved in production processes of polymers  
-safety protocols in a manufacturing environment.

01/08/2022 – 12/09/2022 Islamabad, Pakistan  
**INTERNATIONAL POLYMER INDUSTRIES INTERNEE**

-Gained hands-on experience in working with various polymer materials  
-learned how to operate different types of laboratory equipment.

## ● PROJECTS

18/09/2023 – 27/06/2024  
**Design Of an energy efficient plant for CO2 utilization and capturing**

Integrated flowsheets were developed on ASPEN plus for CO2 capturing plant and hydrogen production, then from hydrogenation of CO2 methanol production flowsheet was developed and from dehydration of methanol Dimethyl ether flowsheet was produced. technoeconomic analysis was performed for each production process.

19/02/2024 – 27/02/2024  
**Comparison of Life Cycle Assessment (LCA) datasets and its merits and demerits**

Conducted a comparative analysis of Life Cycle Assessment (LCA) datasets, evaluating methodologies, data quality, and environmental impact results.

**Designed the pipeline system of a society.**

Designed an efficient water distribution pipeline system for a community, optimizing water flow and incorporating pump technology to serve multiple residences.

## **Manufacturing of polyethylene by dehydration of ethanol**

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Applied material and energy balance to this system for maximum yield of polyethylene at specified conditions for temperature.

## ● **MANAGEMENT AND LEADERSHIP SKILLS**

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### **Mess Head, O-Week 2021, PIEAS**

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- Led a team of 12 volunteers in managing meal preparation and service for the first day of orientation week.
- Coordinated with suppliers and vendors to ensure timely delivery of ingredients and supplies

### **Organizing Team Member, TEDx PIEAS 2024**

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- Assisted in coordinating logistics, including venue setup, speaker schedules, and attendee registration
- Facilitated rehearsals and provided on-site support to speakers, ensuring they were well-prepared and confident

## ● **VOLUNTEERING**

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Noreen Zindagi Welfare Trust

### **Recreational Activities for Orphans**

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Volunteered in the Noreen Zindagi Welfare Trust project held in the collaboration of Muaawin and Ehsaas-e-Zimedaari.