

# Mazahir Hussain



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## Personal Highlight

A hardworking fresh graduate in the field of Chemical Engineering actively seeking employment opportunities in the industrial sector and widely open to all sorts of prospects. A quick learner with sound knowledge of engineering principles, harboring a passion for developing new skills that may prove helpful in the field. Eager to serve a renowned organization with commitment and loyalty.

## Objective

To pursue and procure a challenging and rewarding position in a progressive organization that is working towards the benefit of society and is assuring of long-term career prospects and growth opportunities, and serving the organization with loyalty.

## Certificate / Courses

- ✦ Hydraulics Design in Real Industrial World (A certificate course organized by SAZEC Institute of Engineering Design)
- ✦ Simulation on Aspen Tech (Arranged by Chemical Department, NEDUET, to familiarize students with modelling and simulation of process equipment)
- ✦ Fire Safety Awareness Session with Fire Drill

## Computer Skills

- ✦ Aspen HYSYS
- ✦ Aspen Plus
- ✦ Microsoft Word
- ✦ Microsoft Excel
- ✦ Microsoft PowerPoint
- ✦ Microsoft Visio
- ✦ C Language
- ✦ Polymath
- ✦ GAMS

## Soft Skills

- ✦ Proactive Observation
- ✦ Self-Initiation
- ✦ Time Management
- ✦ Collaboration
- ✦ Emotional Intelligence

## Educational Background

- ✦ **Bachelor of Engineering**  
**From:** NED University of Engg. & Tech.      **CGPA:** 2.99 out of 4  
**Major:** Chemical Engineering      **Year of Passing:** 2017
- ✦ **Intermediate**  
**From:** Adamjee Govt. Science College      **Grade:** A-One (82.00%)  
**Major:** Pre-Engineering      **Year of Passing:** 2013
- ✦ **Matriculation**  
**From:** St. George's School      **Grade:** A-One (86.47%)  
**Major:** Computer Science      **Year of Passing:** 2011

## Work Experience

- ✦ **Internee**  
**Company:** Lucky Cement Limited      **Duration:** May 2016 - June 2016
  - Worked in Waste Heat Recovery for a duration of one week during which the production of electricity with coal fired flue gases was observed.
  - Learnt the mechanism and working of different equipment (crushers, mills, kiln etc.) and observed the process of cement production from raw materials to final product.

## Project

- ✦ **Study for Selection of Best Solvent for CO<sub>2</sub> Capture**
  - The project dealt with the development of an optimized approach for the amine based absorption process for absorption of CO<sub>2</sub> from flue gases.
  - The project was pursued on a simulation framework. Amine solvents were chosen and analyzed against the impacts of the absorber/stripper column heights, the concentration of amine solvents and operating conditions.
  - The impact these factors had on the CO<sub>2</sub> removal from flue gases by amine based recovery processes was interpreted and presented.