Muhammad Mudassir

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Address
131 Street, Fateh Sher Road, Mozang
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Objective

To gain hands-on experience and expand my knowledge in the field of chemical engineering by completing a challenging and meaningful internship in a dynamic and innovative organization, where I can apply my academic theories to real-world projects, develop my technical skills, and make a valuable contribution to the team.

Education

Ghulam Ishaq Khan Institute of Engineering Sciences and Technology (GIKI) — Topi, PK
Bachelors of Science in Chemical Engineering — 2020 - 2024
CGPA: 3.20/4.00

Punjab Group of Colleges — Lahore, PK
F.Sc. Pre-Engineering — 2018 - 2020
Result: 990/1100

Govt. Higher Secondary School, Mozang — Lahore, PK
Matriculation — 2016 - 2018
Result: 899/1100

Work Experience

Maple Leaf Cement Limited — Mianwali, PK
July, 2022 - August, 2022

As a production internee, working in cement manufacturing industry, I was able to gain the following experiences:
-Learned entire cement production process, from raw materials extraction to the final product.
-Became familiar with the different equipments and machinery used in cement production.
-Learned use of chemical and physical processes for the manufacture of cement.

Academic Projects

Investigating the Impact of Particle Size and Concentration on Settling Velocity in Suspensions using a Sedimentation Analyzer

Studied the particle size distribution of a suspension using a sedimentation analyzer to determine the effect of particle size and concentration on the settling velocity.

Investigating the Influence of Temperature Gradients and Flow Velocity on Convective Heat Transfer in Turbulent Flows

Investigated the impact of temperature difference and flow velocity on the convective heat transfer coefficient in a turbulent flow.

Investigating the Impact of Refrigerant Charge and Condenser Temperature on COP and Refrigeration Capacity

Conducted experiment on thermodynamics of vapor-compression refrigeration system to analyze the impact of refrigerant charge and condenser temperature on COP and refrigeration capacity.

Characterization of Vapor-Liquid Equilibrium in Binary Mixtures using a VLE Apparatus

Conducted VLE experiments to determine vapor-liquid equilibrium data for binary mixtures using VLE apparatus, resulting in the measurement of key parameters such as vapor pressure, temperature, dew point, bubble point, and phase composition.

Investigation of Flow Arrangement Impact on Heat Exchanger Performance

Conducted a performance analysis of parallel and counter-flow heat exchangers by measuring heat transfer rate, pressure drop, and overall heat transfer coefficient for various flow rates and temperatures.

Performance Evaluation of Fittings with a Study on the Effect of Roughness on Head Losses

Conducted a performance evaluation of various fittings by measuring head losses across elbows, tees, and reducers and analyzing the impact of roughness and flow conditions.

Investigated the effect of temperature variations on the removal of organic matter using aerobic digestion.

Conducted controlled experiments with different temperature settings to assess the impact on the degradation efficiency of organic waste, measuring parameters such as biochemical oxygen demand (BOD) removal rates.

Awards & Achievements

- Manager Mess Bill Aid | Project Topi
- Event Coordinator | AIChE GIK Chapter
- Executive Member | IET GIK Chapter
- PEEF Scholarship for 2020-2024
- PEEF Scholarship for 2016-2018

Skills

- Leadership
- Communication
- Microsoft Office 365
- Problem solving
- Critical thinking