

Zeeshan Mujeeb Shariff

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TRANSFERABLE IQAMA

Personal Details:

Date of Birth: 31/10/2000 | Place of Birth: India | Nationality: Indian | Gender: Male | Civil Status: Single

EDUCATION

BMS College of Engineering, Bangalore

August 2018 – August 2022

Bachelor of Engineering, Chemical Engineering

- Taken: Mechanical Operations, Fluid Mechanics, Heat Transfer, Mass Transfer, Chemical Equipment Design, Biochemical Engineering, Biology for Engineers, Food Engineering, Process Principles & Calculations, Petroleum Refining, Advances in Energy Technology, Process Modelling Simulation, Environmental Engineering, Industrial Safety and Occupational Health, Project Management & Finance, Chemical Technology, Interfacial Phenomena, Chemical Reaction Engineering, Economics in Engineering, Process Control & Engineering, Transport Phenomena, Operations Research, Material Chemistry & its Applications, Process Engineering Thermodynamics, Entrepreneurship Development & Management.

WORK EXPERIENCE

MGO BOARDS OXIDE BOARD FACTORY

December 2024 - present

Chemical R & D Engineer

Al Kharj Industrial City, Riyadh, Saudi Arabia

- Conducted research and development activities to improve the formulation and performance of Magnesium Oxide (MgO) boards and other oxide-based construction materials.
- Analyzed raw materials and additives to optimize chemical composition for enhanced board strength, fire resistance, and durability.
- Assisted in the scale-up of laboratory formulations to pilot and production scale, ensuring consistency and quality control.
- Collaborated with cross-functional teams (production, quality, and technical) to implement process improvements and troubleshoot chemical-related production issues.
- Conducted experimental trials, documented test results, and contributed to technical reports and product development documentation.
- Evaluated environmental and safety impacts of chemical processes, ensuring compliance with local and international standards.
- Supported new product development initiatives by proposing innovative materials and sustainable alternatives.

DEWGLO CLEANING SOLUTIONS

April 2022 – May 2023

Chemical Engineer

Bangalore, India

- Analyzed the processes involved in the production and manufacturing of Housekeeping Chemicals.
- Conducted tests to determine the quality of raw material for efficient usage, ensuring that it is conforming to the International green standards of the company.
- Examined the different types of mixing processes involved for the thorough mixing of the solutions, one was with the help of hand mixing for thin solutions and the other was with the help of a mixing machine for the thick solutions.
- Removal of impurities from the solutions with the help of water plants like DM water plant and R.O. water plant to ensure that the final product obtained is pure, clean, eco-friendly and offers the highest standards of efficiency.

RESEARCH EXPERIENCE

Projects Based on Software Use Like DWSIM

2020 – 2021

Undergraduate Researcher, Guide: Prof. Mrs. Shabnam Siddiqui

- Aim was to understand the process of cleaning and optimizing swimming pool water for its reuse using simulation tools and presentations.
- Generalized and simplified the process of swimming pool water for its reuse using DWSIM.
- Displayed Knowledge of DWSIM and understood how chlorine is used as a disinfectant for treatment of water and removal of dangerous pathogens like Escherichia Coli, Salmonella Bacteria and Protozoans such as Cryptosporidium Parvum, Giardia Lamblia.
- Expressed the need of reuse of water and examined the chemical reactions occurring and the effects of their by-products in swimming pools.

Chemical Plant Design Project

2020 – 2021

Undergraduate Researcher, Guide: Prof. Mrs. Shabnam Siddiqui

- Simulated the Synthesis of Iso Amyl Acetate via Reactive Distillation using DWSIM.
- Analyzed the working of a Reaction Distillation Column.
- Examined the esterification of acetic acid with isoamyl alcohol.

Undergraduate Researcher, Guide: Prof. Dr. C.T. Puttaswamy

- Production of Aluminum Hydroxide by anodizing spent sludge.
- Assessed and analyzed the various methods of production of Aluminum Hydroxide.
- Analyzed all aspects of technical feasibility, commercial viability and select the most efficient method of production.
- Examined the effect of temperature and concentration of reactants in the production process.
- The graphical analysis and the surface structure of the samples produced were examined by both SEM and XRD analysis which was done right after drying the final product obtained which is a solid white precipitate being crystalline in nature.

CERTIFICATIONS

- Certified Lean Six Sigma Green Belt from IMC
- Certified Lean Six Sigma Black Belt from IMC
- PMP Certification Training from PMI

TECHNICAL TOOLS

- MS Word, MS Outlook, MS PowerPoint & MS Excel
- DWSIM
- Team Management
- Chemical Engineering
- Project Management
- Quality Control

AREAS OF INTEREST

- Energy Engineering, Sustainable Engineering, Petroleum Engineering, Environmental Engineering