

SABEEH KHAN

CHEMICAL/PROCESS ENGINEER

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PROFESSIONAL SUMMARY

An adaptable Chemical Engineer with hands-on experience in textile industry. Proficient in process optimization, P&ID design, and project management. A results-oriented leader who excels in problem-solving and data-driven decision-making. Skilled in effective communication and training. Committed to continuous learning and equipped with a strong foundation in engineering principles.

EXPERIENCE

Production Assistant, Soorty Enterprises – Karachi, PK (On-Site)

APRIL 2021 – AUGUST 2023

Adept at optimizing production, resolving client concerns, and leading cross-functional teams. Committed to efficiency, cost-effectiveness, and sustainability in production processes.

Key Achievements:

- Organized the commissioning of the PSA (Pressure Swing Adsorber) ozone generator plant, ensuring all compliance activities were in order
- Successfully implemented the 5S methodology in the production department, resulting in an organized and efficient workspace
- Led process improvement initiatives that boosted productivity and fabric quality
- Managed production schedule optimization, meeting customer demand with best production efficiency
- Successfully reduced the consumption of utilities and chemicals, leading to significant cost savings and promoting sustainability

Technical Proficiencies:

- Production Scheduling: Designing and implementing production schedules
- Commissioning & Compliance: Supervision of adherence to regulatory and company standards
- Continuous Improvement: 5S methodology and process improvement strategies
- Root Cause Analysis: Identifying underlying causes of errors and concerns
- Sustainable Practices: Reducing consumption of utilities and chemicals in production

Process Engineer Intern, Artistic Milliners – Karachi, PK (On-Site)

JANUARY 2021 – MARCH 2021

During my internship, I explored the complex world of denim manufacturing, gaining valuable hands-on experience. I learned rope dyeing indigo, enhancing denim consistency. I optimized weaving processes, leading to improved fabric quality and upheld high standards through precise testing in comprehensive denim manufacturing.

Key Achievements:

- Led the optimization of the Rope Dyeing Indigo process by meticulously controlling dye penetration and color consistency. Ensured reducing variations in color and enhancing product quality.
- Played an important role in increasing fabric quality and production efficiency by skillfully troubleshooting loom issues in Weaving Process. Implemented proactive maintenance procedures to minimize downtime and maximize loom performance, contributing to improved weaving outcomes.

- Assisted in development of new denim finishing techniques during the washing and finishing stages. These techniques raised up the texture and appearance of the denim, resulting in a unique and marketable finish.
- In the Quality Assurance Labs, I conducted a range of specific tests, including pH tests, stretchability tests, and thickness tests, to ensure the manufactured denim meets the customer's requirements. Consistently maintained stringent quality standards, reducing defects and ensuring customer satisfaction.

Technical Proficiencies:

- Rope Dyeing Indigo: Dye penetration control, color consistency techniques, optimizing denim production
- Weaving Efficiency Enhancement: Troubleshooted loom issues, implemented preventive maintenance strategies, boosted fabric quality & production efficiency
- Innovative Denim Finishing: Innovative finishing techniques in washing and finishing process, resulting in unique and marketable denim textures.
- Precise Quality Assurance: pH testing, stretchability testing, and thickness testing

PROJECT

Gas Sweetening Through MEA Absorption System, National Refinery Limited – (Karachi)

JANUARY 2020 – JANUARY 2021

My Final Year Project involved designing a cost-effective Gas Sweetening System using MEA absorption. I applied extensive knowledge in chemical processes, thermodynamics, and simulation techniques with ASPEN HYSYS 8.8 to optimize the absorption tower. This project showcased my ability to turn theoretical concepts into practical engineering solutions.

Key Achievements:

- Spearheaded the design of an efficient and cost-effective Gas Sweetening System using MEA absorption technology.
- Utilized advanced simulation software, ASPEN HYSYS 8.8, to model the entire absorption tower and plant operation. The simulation allowed for precise optimization, ensuring the successful implementation of the MEA Absorption System.
- Demonstrated a deep understanding of chemical processes, thermodynamics, and transport phenomena, which were pivotal in the successful design and simulation of the absorption tower.

Technical Proficiencies:

- Process Simulation: ASPEN HYSYS 8.8 for process modeling and optimization
- Chemical Processes: Chemical reactions, process design, and optimization techniques
- Thermodynamics: Applying thermodynamic principles to analyze and improve chemical processes
- Transport Phenomena: Transport of materials and energy within gas sweetening system
- Instrumentation & Process Control: Designing and implementing control systems, and safe process operations
- Environmental Engineering: Environmental impact assessment and sustainable engineering practices
- Maintenance Engineering & Safety: Maintenance strategies and safety protocols for efficient work environment

EDUCATION

Bachelors in Chemical Engineering, University of Karachi

JANUARY 2017– JANUARY 2021

Bachelors in Chemical Engineering from the University of Karachi, with expertise in gas sweetening through MEA absorption systems and process simulation using ASPEN HYSYS 8.8.

Skill Highlights:

- Gas Sweetening and Absorption System Design
- Process Simulation with ASPEN HYSYS 8.8
- Efficient and Cost-Effective Process Design
- Heat and Mass Transfer
- Project Management

PERSONALITY

- **Communication:** Proficient in conveying complex ideas clearly and effectively
- **Analytical Skills:** Adept at separating problems and identifying practical solutions
- **Training Skills:** Skilled in sharing knowledge and fostering skill development in others
- **Leadership:** Capable of guiding teams toward common goals with vision and determination
- **Project Management:** Experienced in managing tasks and resources for successful outcomes
- **Calculation Skills:** Highly proficient in numerical analysis and calculations
- **Adaptable:** Quick to adjust to changing environments and requirements
- **Progressive Learner:** Continuously seeking new knowledge and skills for personal growth
- **Results-Oriented:** Driven by a commitment to achieve meaningful results
- **Information-Driven:** Relies on data to make informed decisions and choices

SKILLS

Chemical/Process Engineering: Chemical Engineering principles for industrial challenges

Process Optimization: Improving manufacturing processes for rubber, cement, and polymer manufacturing, ensuring efficiency and cost-effectiveness

ASPEN HYSYS: Simulation software for process modeling and optimization

Microsoft 365: MS Word, MS Excel, MS PowerPoint, MS Project, and MS Publisher

P&ID Interpretation: Reading, interpreting, and creating P&IDs, for petroleum refining, chemical processing, and manufacturing industries