MUHAMMAD UMER FAROOQ

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Village Chaghar Matti, Tehsil Mathra, District Peshawar, Pakistan

Career Objective:

Industrial Engineer with a passion for optimizing process, reducing waste, and enhancing productivity. Seeking a challenging role where I can leverage my skills and knowledge to drive continuous improvement and contribute to organizational growth.

Experience:

Internship Trainee *06/2024 – 09/2024*
SK Engineering *Jalozai, KPK, Pakistan.*

- Optimized CNC machine operations through detail analysis and monitoring.
- Designed and revised job cards, machine cards, and BOM, improving efficiency by 10%.
- Assisted in implementing RFID and automation systems for streamlined processes.

Internship Trainee *07/2023 – 08/2023*
One Life Water Company *Hayatabad Industrial Estate, KPK.*

- Examined PET blow molding, water filtration, and filling stages to enhance process flow.
- Identified production bottlenecks in the process line, improving output efficiency by 15%.
- Developed a Man-Machine Chart to balance workload in PET blow molding operations.

Internship Trainee *06/2023 – 07/2023*
Frontier Botanicals Research Laboratories Pvt. Ltd *Hayatabad Industrial Estate, KPK.*

- Evaluated tablet and syrup production methods with related equipment analysis.
- Updated workflow charts and facility layouts to improve process organization.
- Performed time and motion studies to standardize packaging, raising efficiency by 10%.

Education:

BSc Industrial Engineering *09/2021 – 08/2025*
University Of Engineering & Technology, Peshawar. *3.83/4.0*
I studied core subjects including Operations Research, Quality Control, Supply Chain Management, & Total Quality Management. I gained knowledge in Lean Manufacturing, Project Management, Design of Experiments, and Industrial Automation. Applied concepts from Engineering Economics, Ergonomics, Facility Layout Design, and Work Study & Method Engineering.

Research & Publication:

1. ***Predictive Modeling of Hospital Waste Generation Using Machine Learning Based on Patient Inflow***
Published in the International Journal of Innovations in Science & Technology (Vol. 07, Issue 03, July 2025).

2. ***Real-Time Hospital Waste Classification Using CNN-Based Smart Sorting System.***
Published in the Annual Methodological Archive Research Review (Vol. 3, Issue 8, 2025).

FYDP Title*: *Multi-Objective Vehicle Routing Optimization for Hospital Waste using an AI Algorithm

Utilized the NSGA-II algorithm to determine optimal routes for hazardous waste collecting vehicles by using real-time data from smart bins, aiming to minimize total distance, fuel consumption, environmental impact, and infection risk while supporting SDGs 3, 12, and 13.

Skills:

Hard Skills: Lean Six Sigma, Production Planning & Control, Process Optimization, Quality and Supply Chain Management, Operations Research, Computer-Aided Manufacturing (CAM), Industrial Systems Simulation.

Soft Skills: Analytical Problem-Solving, Effective Communication, Team Collaboration, Time Management, Adaptability, Critical Thinking, Leadership, Decision Making, Continuous Learning and Ethics.

Software skills: Minitab, SolidWorks, AutoCAD, MATLAB, MS Project, Arena Simulation, Microsoft Office.

Certificates:

Diploma in Information Technology, IISE Certification, HSE Technical Course, Six Sigma Yellow Belt, Data Analytics and Business Intelligence Course.

Languages: English | Urdu | Pushto