

A dynamic professional, adept at employing critical thinking and astute observation to drive organizational success. Demonstrating exceptional interpersonal and management skills, coupled with a passion for continuous improvement, I excel in problem-solving and delivering innovative solutions.



## TECHNICAL SKILLS

- Continuous Improvement (IATF)
- Lean Six Sigma
- Lean Manufacturing
- Kaizen
- Project Management
- PFMEA
- Production Planning
- Material Planning
- SAP (MM)
- Solidworks/Pro E
- Process Flow Diagrams
- Life Cycle Assessment (LCA)
- Metallography
- Mechanical/Material Testing
- Microsoft Office Suite
- Injection Molding

## EDUCATION

### **MSc in Materials Engineering & Nanotechnology** Politecnico Di Milano (Technical University of Milan)

01/2020 - 12/2022

Milan, Italy

### **BSc in Metallurgical Engineering** NED University of Engineering & Technology

01/2014 - 10/2017

Karachi, Pakistan

## WORK EXPERIENCE

### **Process Engineer (Research & Development)**

Onecircle | Keykeg Ltd.

10/2023 - Present

Plastic Containers Manufacturing

Den Helder, The Netherlands

#### *Achievements/Tasks*

- Translating new product designs and innovations for injection molded parts, into mass production processes.
- Conducting feasibility studies and process evaluations to identify opportunities for improvement in both R&D and Production workflows.
- Analyzing data from experiments ( CO2 and O2 content control), trials, and production runs to identify trends, troubleshoot issues, and optimize process parameters of blow molders for plastic container production.
- Providing technical support to Production team to resolve process-related issues and ensuring smooth production operations.
- Communicating project updates, findings, and recommendations to key stakeholders, including senior management, to ensure alignment and support for quality and performance improvement efforts.

### **Production Process Engineer**

Aisha Steel Mills Pvt. Ltd

12/2018 - 01/2020

Sheet Metal Forming and Surface Treatment

Karachi, Pakistan

#### *Achievements/Tasks*

- Led the successful erection and commissioning of a Continuous Galvanizing Line as Project Engineer, ensuring on-time project completion, while managing cross-functional teams, overseeing equipment installation, testing, and commissioning processes.
- Managed a team of 18 Process Operators later as Production Process Engineer, implementing lean manufacturing principles for improved efficiency and quality, including production and material planning.
- Oversaw annealing furnace operations, zinc composition, Chromate passivation processes, and facilitated timely material planning.
- Maintained production and QC records, ensuring compliance with QA standards.
- Conducted training sessions on 5S and Kaizen principles, implementing continuous improvement and empowering team members to enhance operational efficiency.

# WORK EXPERIENCE

## **Production Process Engineer** AB Engineering Pvt. Ltd

11/2017 – 10/2018

Automotive Parts Production

Karachi, Pakistan

### Achievements/Tasks

- Ensured compliance with quality standards (ITAF 16949 and ISO 9001), managed production reports, and optimized designs for automotive sub-parts on Solidworks.
- Improved production planning to meet quotas and collaborated with teams to improve process efficiency.
- Identified, rectified and optimized process related hindrances, and executed maintenance plans to minimize downtime.
- Maintained and analyzed Key Performance Indicators (KPIs), enabling data-driven continuous improvement initiatives across the department.
- Trained operators in safety and 5S compliance and promoted a culture of safe and efficient work environment.

## **Quality Control Engineer** Razzaque Steels Pvt. Ltd

08/2016 – 08/2017

Metal Forming/Shaping and Heat Treatment

Karachi, Pakistan

### Achievements/Tasks

- Conducted comprehensive material testing on production samples acquired by cutting via arc welding , ensuring compliance with quality standards.
- Developed timely testing plans for stock materials, contributing to the quality control process and product integrity.
- Supervised and coordinated Spectrometer testing of samples sourced from raw billets, cross checking the material's chemical composition met specifications.
- Provided crucial Adjustment Criteria for Thermo-mechanical Treatment parameters to optimize material properties.
- Generated detailed reports complying with ISO 9001 standards, documenting testing results and ensuring adherence to quality and compliance requirements.

# RESEARCH & DEVELOPMENT

## Research Assistant (Politecnico di Milano) (03/2022 – 11/2022)

- Collaborated in researching Vanadium-based Conversion Coatings as Chromium alternatives.
- Enhanced coating parameters for efficiency and shorter processing times.
- Conducted life cycle assessment, prepared samples, and performed material analysis via SEM and EDX.
- Performed PFMEA analysis for coating suitability in real life scenario.

## Optimization of R.S welding parameters for better microstructure of HAZ in 316L Stainless Steel (01/2017 – 09/2017)

- The purpose of this Research was to find the optimize the welding parameters to acquire the best resistance spot weld without reducing the HAZ material integrity.
- Two Stainless Steel grades 316L and 304L were used for comparative study.
- Emphasis was placed upon improvement of mechanical properties w.r.t the changes in micro-structure in Heat Affected Zone (HAZ).

# ACHIEVEMENTS/CERTIFICATIONS

Six Sigma: Green Belt (2023)

SAP ERP Essentials (2023)

Politecnico di Milano Career Service Award (2022)

Managing Emergencies and PPE Compliance (2020)

MS Office Professionals (2016)

# HONOR AWARDS

Politecnico di Milano Career Service Award (2022)

Politecnico di Milano

Mentorship Award for Best Team Lead (10/2019)

Aisha Steel Mills Pvt Ltd

# LANGUAGES

English

*Native or Bilingual Proficiency*

Urdu/Hindi

*Native or Bilingual Proficiency*

Italian

*Limited Working Proficiency*

Dutch

*Elementary Proficiency*

# NOTE

Willing to relocate as per requirement.