

MUHAMMAD USMAN MAZHAR

Metallurgical and Materials Engineer (PEC registered)

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Career Objective

Metallurgical & Materials Engineer with basic experience in Technical Sales & Quality control having sound understanding of NDT, Metallography, Microscopy and Manufacturing Techniques. Also having strong knowledge Welding inspection, corrosion control, Technical Sales, Queries handling & product cost management. Besides, I am quick learner, smart worker and good team worker.

PROFESSIONAL EXPERIENCE

MORGAN TECHNOLOGIES Pvt. Ltd.

Sales & Services Engineer (feb 18 – cont.)

- ✓ Technical sales of Production Equipment of Pharma Industry.
- ✓ Commissioning of Water Plant at **Dynatis-indus** with **BWT-China team**.
- ✓ Queries and quotation handling for business leads.
- ✓ Commissioning of OSD machines.



GASCO engineering services (Dec 2017 – Jan 2018)

QA/QC engineer (as Freelancer project based)

- ✓ Visual inspection of welds on 42" Diameter SSGC flow line according **API E1104**.
- ✓ Supervision and inspection after CU-grit blasting & primer application.
- ✓ Monitoring and inspection during sleeves application.



SteelFab engineering services (May 2016 – Nov 2017)

QA/QC engineer

- ✓ Quality control of Fabrication and R/M tasks.
- ✓ Provide maintenance of field test equipment, ensure good operation condition and render repairs.
- ✓ Preparing and submitting daily and weekly work schedules.
- ✓ Welding inspection (using **DPT**) of V Clamps at client site.
- ✓ Inspection of weld joints & Coating Inspection.
- ✓ Performed checking of **URS** for accuracy, manufacturability provided by Client.
- ✓ Ensuring availability of all production materials as requested by procurement department.
- ✓ Collaborating with team members to ensure project completion by deadline and within budget.
- ✓ Informing clients of all project specifications.



Senior Engineering Automobile Company (Sept 2015- Feb 2016)

- ✓ Evaluates manufacturing processes by designing and conducting research programs; applying knowledge of product design, fabrication, assembly, tooling, and materials; conferring with equipment purchasers; soliciting observations from operators.
- ✓ Practice and Implementing Plan for **ISO 9001:2008 Quality Management System (QMS)**.
- ✓ Improves manufacturing efficiency by analyzing and planning work flow, space requirements, and equipment layout.

- ✓ Assures product and process quality by designing testing methods; testing finished- product and process capabilities; establishing standards; confirming manufacturing processes.
- ✓ Prepares product and process reports by collecting, analyzing, and summarizing information and trends from the purchasers i.e. **Millat Tractors Limited, Infinity Engineering (Pvt.) Limited.**

Flow line Instruments (june15– aug 2015) (project based)



- ✓ Inquiries Handling, task management and Request Tracking
- ✓ Installation and maintenance of personal hygiene and industrial cleaning system
- ✓ Presentation and demonstration of industrial equipments to clients.

PROJECT & INTERNSHIPS

Final Year Project

Fabrication & Characterization of Aluminum Alloy Matrix Composite – SiC Reinforced by Stir Casting (Final Year Project, 2014-15)

- ✓ Development of Al7075-sic composite by stir casting & Compared the properties of Aluminum Alloy Matrix- SiC Composite with the base alloy.
- ✓ Characterization of Composite (including optical microscopy, SEM, XRD, hardness, impact strength and tensile strength evaluation).

Internships

Pakistan Council for Scientific & Industrial Research (4 Weeks Summer Internship, 2014)

- ✓ Learned about NDT and its use for the defects (ultrasonic, XRF, Dye penetrant, Eddy Current)
- ✓ Measured coating thicknesses and determined the welding defects in different samples (such as lack of penetration and lack of fusion, porosity)
- ✓ Performed destructive testing, Performed composition and corrosion rate analysis

Excel Engineering: (internship 2013)

- ✓ Automobile & Tractor parts inspection.
- ✓ Flywheel, engine Block, gear box inspection.
- ✓ Adjustment of Carbon Content per heat.

EDUCATION

BSc. Metallurgical & Materials Engineering (2015)

University of Engineering & Technology Lahore. (3.675 cgpa).

FSc. (2011)

Superior Group of Colleges LHR. (81% Marks A+ grade)

Matriculation (2008)

Jinnah Foundation School & College LHR. (76% Marks A grade)

SEMESTER PROJECTS

- ✓ Corrosion rate analysis in different environments
- ✓ Principles of marketing & cost management
- ✓ Working demonstration of atomic force microscopy and atomic probe microscopy.
- ✓ MINERAL DRESSING: Study of the Extraction of Common Earth Metals.
- ✓ PHYSICAL METALLOGRAPHY: Detailed Microstructural Analysis of Al-6061 Alloy.
- ✓ ROLLING TEST: Study of the Rolling Effects on the Mild Steel.

Skills & Attributes

- ✓ Microsoft Office (Word, PowerPoint, Excel)
- ✓ Familiar with the basics of computer language C++, Solid Edge, Image J, Full-Prof, Picasa, Prezi
- ✓ Knowledge of SAP, ISO 9001 & RTS system software.
- ✓ Have Good Management Skills, flexible, Honest, Hardworking and Dedicated.

Curricular Activities

- ✓ Worked as volunteer for ASME, ASHRAE, CIVICON and Space.
- ✓ **Member** of ASM, TMS, AIST, ASME. (local chapter)
- ✓ International Student Member of ASM, TMS, AIST, ACerS, ASME.
- ✓ Participation in International Foundry Congress & Exhibition (IFCE) 2017 at PC-Hotel, Lahore.
- ✓ Organized one-day workshop on “Nanotechnology”, one week “Quiz & Presentation Competition”, and “Gaming Fest’13” under the banner of UET-MAC.
- ✓ Organized one day workshop on “Nanotechnology”, one week “Quiz & Presentation Competition”, and “Gaming Fest’13” under the banner of UET-MAC.
- ✓ Represented UET-Lahore in “**All Pakistan-National Symposium on Materials Technology**” named Mattech’13 by ASM-GIKI Chapter and “**All Pakistan Foundry Association Conference**”.

AREAS OF INTEREST

- ✓ Corrosion engineering
- ✓ Advanced NDT
- ✓ Techno Marketing
- ✓ Steel and iron production
- ✓ Welding Inspection.

References

Will furnished on demand.