Engr. M. Usama Majeed

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Objective

To be a part of a reputable organization offering challenges which will put my qualities, professional skills and strength into a test and help me to accomplish its targets with optimum level of accuracy, determination and excellence

Education

2018	M.Sc. Metallurgy and Materials Engineering	3.67 CGPA	University of Engineering and Technology (UET), Lahore
2015	B.Sc. Metallurgy and Materials Engineering	3.60 CGPA	Collage of Engineering and Emerging Technologies ,University of the Punjab, Lahore
2009	F.Sc. Pre-Engineering	78.00 %	Govt. Islamia College Civil Lines, Lahore
2006	S.S.C. Science Group	84 %	Kala Shah Kako Boys High School

Major Subjects

Major subjects in Masters: Engineering Ceramics, Composites and Polymers, Corrosion Engineering, Heat Treatment of Metal and Alloys, Powder Metallurgy, Steel making
Major subjects in Bachelor: Physical Metallurgy, Foundry Engineering, Composites and Polymeric Materials, Corrosion Engineering, Advanced Materials, Nanotechnology

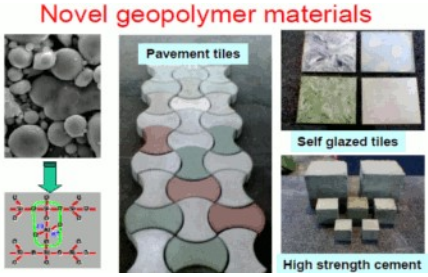
Work Experience

- Working as a Technical advisor at ABC since Sep 2022.
- Worked in Kamran Steel and rerolling mills as an Assistant Manager for 1 year (6*11 Bullet Caster with average speed of 4 Meter per minute).
- Worked in Mughal iron and steel industries Ltd,(4 years) as a Senior (Production, Planning and quality control) Engineer
- Worked in Aziz Steel industries Ltd,(1 year) as a production and quality control engineer

Key Responsibilities:

- Supervise casting at CCM.
- Supervise 15,20 and 25 metric ton furnaces
- Work as quality insurance supervisor, by managing to remove bottlenecks in production line.
- Check all types of Ferro Alloy recoveries and prepared reports
- Prepare calculations and instructions for melting process and CCM
- Make different grades heats; 1045,1060,SR 24,Grade-60,Grade-40,TMT-grade
- Supervise hourly production of furnace and CCM
- To check casting and rolling defects.

- **Worked at UET lab on Porous Ceramics Materials during Masters (2017-2018)**



Key responsibilities:

- Develop cheap and sustainable third generation ceramics tiles
- Their manufacturing and characterization
- Keep eye on needed improvements
- Cost estimation and development of cheap manufacturing root.

Volunteer Projects

2014

- Designed a bio-material (titanium- tantalum-cooper alloy)
- Re-designed the rubber for Rice mill rolls,
- Presented a presentation on polycaprolactone polymer in CEET (PU).

Design Project

Jan 2017-Mar 2018

Synthesis & Characterization of Particle Reinforced Clay (Natural soil) based Geopolymer Composite material.

Feb 2014 – Oct. 2014

Checked the corrosion properties of AISI 1045 from microstructure of Ferritie-Perlite, Banite, Martinsite Preparation of (Normalized, Austempered and Quenched) materials

Abstract: Plain carbon steel, AISI-1045 is largely used in industrial and automobile engineering. Corrosion behavior of this steel from various microstructure i.e. ferrite-pearlite, bainite and martensite used to find a most passive phase to curb its deterioration in coastal areas.

Process Report

Oct 2012 – Jan 2013

- Prepared EMCO Tiles industries production process report
- Presented Fiber craft industry production process report

Internship

July 22 –Aug 26,2015

Five weeks in Quadri Brothers (Foundry)

- Worked in quality control department, melting shop and pattern shop
- Insured the grey Iron and low alloy steel casting standard protocols
- Worked in heat treatment and welding shop.
- Performed hardness and dye penetrant testing.
- Quality control of CO_2 process

July 1 – July 28,2013

Four weeks at The Heavy Industries Taxila Foundry

- Worked in heat treatment(carburizing and induction hardening machine) shop
- Learned the investment casting procedure
- Learned surface treatment and different coating techniques.

Courses

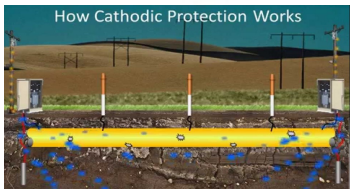
CSWIP 3.1 (Certified Welding Inspector)

- Learned different techniques of welding and their application
- Learned about welding defects, welding positions
- Learned how to write a welding report.

Short course on corrosion and cathodic protection

Done with a short course on corrosion and cathodic protection and learned

- (CP) fundamentals
- NACE recommended protection criteria.



Technical Skills

Basic knowledge of : • **Autodesk AutoCAD** • **Microsoft Office** • **SEM, XRD, FTIR, TGA**