

ZESHAN RASOOL

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EDUCATION

Bahauddin Zakariya University, Multan, Pakistan

2017-2021

Bachelor of Science in Metallurgy and Materials Engineering

CGPA 3.76/4.00; PEC No: METAL/06383

RESEARCH EXPERIENCE

Research and Development of Nitinol as a Biomaterial Used for Heart Stent

Final Year Project, Oct 2020-Oct 2021

- Conducted research on shape memory alloy (SMA) nitinol for cardiovascular heart stents and orthopaedic applications.
- Analyzed properties of nickel-titanium (50/50 wt. %) alloy using material characterization techniques.
- Performed corrosion tests using “Gamry Interface 1000E Potentiostat/ Galvanostat/ ZRA” in 0.9% NaCl solution.
- Compared hardness of as-received and heat-treated samples using Vickers Hardness Tester.

PROFESSIONAL EXPERIENCE

Sui Northern Gas Pipelines Limited, Sialkot, Pakistan

Cathodic Protection Engineer, Nov 2022-Apr 2023

- Conducted surveys to assess corrosion levels on metal structures and pipelines.
- Designed and installed cathodic protection systems for multiple projects located in Sialkot and Narrowal.

Bureau Veritas Pakistan Pvt Ltd, Daharki, Pakistan

NDT Inspector, Oct 2022-Nov 2022

- Executed dye penetrant testing and ultrasonic thickness gauge inspections on pressure vessels, heater tubes, and heat exchanger shells/nozzles.
- Prepared inspection reports related to workpiece.

State Bank of Pakistan, Multan, Pakistan

Student Brand Ambassador, Mar 2022-Jul 2022

- Acted as a liaison between National Financial Literacy Program for Youth (NFLP-Y) and my educational institute.
- Coordinated with a community of students to promote financial literacy.

Pecs Industries (Pvt) Ltd, Lahore, Pakistan

Materials Engineer Intern, Aug 2020

- Identified ways to improve productivity, cost-effective production, and reduction in wastage.
- Implemented standard operating procedures according to lean manufacturing principles and ensured compliance.

CERTIFICATIONS & TRAINING

Yonsei University, Coursera

Advanced Functional Ceramics, Oct 2022

- Studied fundamentals of functional ceramics and materials design.
- Learned rules for developing advanced ceramics with ultimate physical and chemical properties.

American Society for Non-Destructive Testing (ASNT)

NDT Level – II, Aug 2022

- Dye Penetrant Testing Level-II (Certificate No. 2022-PT-048)
- Ultrasonic Testing Level-II (Certificate No.2022-UT-054)

Harvard X, Harvard University, edX

Exercising Leadership: Foundational Principles, Mar 2022-Apr 2022

- Developed the capacity to tackle tough problems and establish trust relationships.
- Qualified key perspectives of stakeholders.

Institution of Engineers Pakistan, Saudi Arabian Centre

Lean Six Sigma Yellow Belt, Jun 2021

- Certified customers’ needs and requirements to improve organizational results using DMAIC methodology.
- Learned about PDCA (Plan, Do, Check, Act) methodology for the enhancement of production system.

Advanced Learning Interactive Systems Online, Alison

ISO 9001: 2015-Quality Management System, Jun 2020

- Implemented ISO 9001:2015 standards to examine and manage the context of an organization.
- Understood complex quality control principles used in inspection during production.

Skill Development Association, Rawalpindi, Pakistan

Professional Computer Course, Jan 2018-Jun 2018

- Developed expertise in installing and troubleshooting Microsoft Windows operating system.
- Acquired proficiency in Microsoft Office suite including Word, Excel, PowerPoint, Outlook, Access, Publisher, and Skype.