Jawad Ahmed

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Objective

Final year Material Engineer student with a strong academic background and hands-on experience in material processing and product development, seeks a challenging position as an Engineer. My goal is to leverage my knowledge of materials science, process optimization, supply chain management, and quality control to drive innovation and efficiency in the manufacturing process. I am eager to apply my skills and contribute to the success of the company

Education

Ghulam Ishaq Khan Institute of Engineering Sciences and Technology (GIKI) — Topi, PK

Bachelors of Science in Materials and Manufacturing Engineering — 2019 - 2023

CGPA: 3.11/4.00

Work Experience

Master Motors Limited(MMCL) — Karachi, pakistan

23-Jun-2022 - 11-Aug-2022

Designed a CRM module for service department with the help of google forms. Made annual survey, customer feedback forms and generated KPI reports.
Translated the warranty book in Urdu language.
Identified different parts replaced in warranty in different period of time in salvage room and then tagged each part.

Final Year Project

Magnesium based biomaterial

Development and characterization of Mg based Biomaterials via powder metallurgy

Academic Projects

Suitable heat treatment process for gear to make it wear resistant.

An economic heat treatment process for making wear resistant gears.

Producing Dual Phase Steel of Ferrite and Pearlite

Produced a dual phase steel containing both characteristics of ferrite and Pearlite using medium carbon steel.

Functionally graded material for use in automobile industry

Using method of powder metallurgy especially compaction and sintering to produce Al-SiC composite to use as a functionally graded material for automotive industry

Producing thin layer of copper on stainless steel

Using PVD sputtering technique to produce a thin layer of copper metal on stainless steel to enhance its surface properties.

Root finding problems(electrical networks)

Derived the mathematical model that represents operation of the two-bus network and solved this two-bus system numerically using Newton Method.

Corrosion Testing(Iron)

Successfully tested the corrosion properties of Fe(iron) in NaCl solution and also calculated its weight loss due to corrosion.

Supply Chain Management for Bath Bombs

As part of our semester project, we analyzed the supply chain of bath bombs, from raw materials sourcing to manufacturing, packaging, and distribution. We identified key suppliers, assessed logistical challenges, and recommended strategies to improve efficiency and reduce costs. Through this project, we gained a deeper understanding of supply chain management principles and their application in the context of a real-world production of our project.

Pipevice Assembly Design using SolidWorks

Designed and modeled a pipevice assembly using SolidWorks, consisting of 10 components and featuring one or more mechanisms. Created detailed drawings and an IGES file of one component, and provided CNC programming for one of the components.

Colored anodization of Aluminium metal

We immersed the aluminium sample in an electrolyte of sulfuric acid and applied electric current to the solution which causes the oxide layer to form on the surface which creates a protective oxide layer on the sample surface that is resistant to wear, corrosion.

Conducted ISO 17025 Audit for Four Brothers Labs

The project involved conducting an ISO 17025 audit for Four Brothers Labs. Our team developed a comprehensive ISO 17025 checklist by thoroughly examining the evidence provided by Four Brothers Labs. Developed an ISO 17025 checklist based on thorough analysis of provided evidence.

Awards & Achievements

- Member at team urban

Skills

- Basic programming skills in C++
- Basic knowledge of creo parametric
- Basic understanding of using Microsoft word and excel.
- Have good understanding of Engineering economics. example: time value of money
- Numerical analysis
- Technical report writing
- Engineering graphics
- Heat treatment processes

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- Supply Chain management
- Basic understanding of python language
- Solid Works
- CAD/CAM
- CRM
- Total quality managment
- Probability and statistics
- Entrepreneurship and Marketing