Muhammad Umar Abdullah

Mechanical Engineer

Detailed oriented mechanical engineer, with a passion of pursuing career in mechanical design and analysis systems. Eager to apply theoretical knowledge and practical skills to contribute to innovative projects and solve real-world engineering challenges.



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Gujranwala, Pakistan



Muhammad Umar Abdullah



Portfolio

EDUCATION

University of Engineering & Technology, Lahore 2020-Present CGPA: 3.483

FSc. Pre-Engineering

Govt. College, Ali Pur Chatha, Gujranwala 2018-2020

91.8%

PROJECTS

Comparative Study of Performance Parameters of Conventional and Toroidal Propellers Fabricated using Fused Deposition Modelling

Final Year Project 2023-Present

Design and Analysis of a Trailer for Transporting Excavator from a Restricted Space.

Internship Project

2023

Revolutionizing Head Protection: MIPS technology Integration in Cycling Helmets

Semester Project - II 2022-2023

Modelling of a 300cc 2-stroke Dirt Bike Engine Incorporated with Power Valve to Enhance Performance Parameters.

CAD Modelling Project

2022-2023

Enhancing Maneuverability: Pneumatic Approach to Steering Assistance in Heavy Duty Automobiles

Semester Project - I

2022-2023

SOFTWARE

SOLIDWORKS & AutoCAD

CAD 3D Modelling and Mechanical Drafting

Ansys & MATLAB`

Structural and Thermal Analysis

Siemens Simcenter Star-CCM+

Computational Fluid Dynamics and Heat Transfer

Python & MATLAB

Scripting & Data Vizualization

Luxion Keyshot

Renderings and CAD Model Presentations

WORK EXPERIENCE

Summer Internship

Descon Engineering Limited, Lahore.

Infrastructure Projects Division

Jul 2023 - Aug 2023

As an Intern at Descon Engineering Limited, I devised a solution for transporting a mini crawler excavator through a small tunnel at MDHP. I also gained valuable experience in reading P&IDs and contributed to pumping calculations for the K-IV project's motor.

Summer Internship

Heavy Mechanical Complex, Taxila.

Workshop, Casting & Forging

Jun 2022 - Jul 2022

During my internship at HMC, I assimilated reading mechanical drawings, engaged in diverse fabrication shop and learned working of various mechanical process equipments. I learned Non-destructive testing methods, casting & forging basics, and operated pneumatic and hydraulic presses.

CERTIFICATES

Applied Computational Fluid Dynamics

Siemens Dec 2023

Environment, Society & Governence

Corporate Finance Institute (CFI) Nov 2023

Health & Safety, Training Session

OSALP International Jul 2023

Engineering Drawings: Reading Drawings & Specs

Project Management Institute (PMI) Jul 2022

AutoCAD Mechanical Essentials Course

LinkedIn Learning Jul 2022

Excel Essentials Training Course

NASBA (LinkedIn Learning) May 2022

MATLAB Essentials Course

LinkedIn Learning May 2022

SKILLS

Computer Aided Design

Data Visualization

Computational Fluid Dynamics

Mechanical Design

Mathematical Modelling & Simulation

Graphics

Finite Element Analysis

Scripting and Automation

Problem Solving

Sketching