MUHAMMAD HASHIR ARIF

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MECHANICAL ENGINEER

A seventh semester student at NUST CEME college with a CGPA of 3.5. I have worked for several organisations. I have a keen interest in design and innovation. My career objective is to utilize my knowledge, skills, experience and creativity to contribute to the success of the organization.

WORK EXPERIENCE

Automotive Design Intern | Disenosys India Oct 2023–Nov 2023

- Learned about team work , acquired leadership skill. Worked on a group project in which I
- learned about automotive design on Catia software.
- Developed my problem solving, critical thinking and management skills

Video Editor fellow | Jazz, Digital Pakistan Jan 2024–Aug 2024

- Developed video editing skill and graphic designing skill.
- Developed communication skill.
- gained experience in corporate sector.

Overhaul Intern| PAC KAMRA 19 Aug 2024–30 Aug 2024

- Developed flight engineering skill, and the safety protocol for ejection seat mechanism
- Developed engine repair skill.
- Gained experience in team work.

Intern| NATIONAL RADIO AND TELECOMMUNICATION CORPORATION (NRTC) 01 July – 30 Aug

- Developed cad designs for waterproof electronic enclosures.
- Acquired experience in the maintenance sector of the HVAC department

SKILLS

- Video editing / Graphic design.
- Problem–Solving / Creative thinking
- Simulation & Analysis: ANSYS , ABAQUS
- Programming for Mechanical Applications: Arduino / Python
- Manufacturing Processes: 3D printing CAD / 3D modelling
- Process Control & Automation

EDUCATION

Sept 2022 – Sept 2026

BEng Mechanical Engineering | NUST EME COLLEGE

- GPA: 3.5
- seventh semester student
- Member of the Media Department in ASME (American Society Of Mechanical Engineer's)

INTERESTS

- Finite Element Analysis (FEA)
- Video editing/Graphic design
- Robotics and Automation
- 3D CAD Modelling and Product Design
- Thermodynamics and Heat Transfer

AWARDS

- 4x High Achiever in the Department (2025)
- Second runner up in the National Design Competition (NDC) (2022)
- Awarded a laptop through the Prime Minister's Laptop Scheme for high merit.

PROJECTS

Automated 3-DOF Robotic Arm Colour Sorter

Developed a robotic arm with colour detection and motion control using Arduino.

Fluid Force Analysis in Radiator U-Bends

Conducted CFD simulations to optimize fluid flow efficiency in U-bends.

Vacuum Mower – Hybrid Cleaning Mechanism

Designed a vacuum-mower system with adjustable suction and speed.