HADI AHMED PIRZADA

• Mechanical Engineering Student - 8th Semester •

PROFESSIONAL SUMMARY

A Mechanical Engineering student with a drive to improve technical and non-technical skills, and a penchant for creativity. Interested in 3D-Modelling Design and Analysis, Robotics, and Project Management.

EXPERIENCE

2022 **Intern at Fauji Fertilizer Bin Qasim Ltd.**
- Interned at FFBL for 5 weeks.
- Participated in equipment overhauling and observed plant shutdowns/TAs.
- Plant overview and Plant Site visits.

2022 **Non-Technical Team Lead - Project Sar'at**
- Co-founded a Formula Student team named "Project Sar'at".
- Non-Technical Team Lead handling both media and marketing of Project Sar'at.

2021 **Director at NUST Automotive Group (NUSTAG)**
- Worked on the hands-on assembly of the car designed for the Shell EcoMarathon.
- Tasked with designing a new and innovative body for the car to decrease total drag force.

TECHNICAL SKILLS

DS Solid Works		ANSYS	
PTC Creo		MatLab	
AutoCAD		C++	

NON-TECHNICAL SKILLS

Organizational Skills		Team Player	
Communication		Management	
Media and Marketing		Flexibility	

EDUCATION

2019 - onwards • CEME, NUST
Mechanical Engineering **- CGPA: 3.82**

2017 - 2019 • Bahria College, Islamabad
HSSC I&II **- 88%**

2017 - 2019 • Fazaia Education System School
SSC I&II **- 94%**

PROJECTS

• Design and Fabrication of a 4 DoF Collaborative SCARA Robot for Automation
Design, fabrication, and path-planning of a SCARA robot for the purposes of medical lab automation.

• Paper on Lower Limb Exoskeleton Analysis
Combined loading analysis of stress and fracture mechanics of a lower limb exoskeleton.

• Fluid Simulation over an Aerodynamic Car Model
Used ANSYS, FLUENT to simulate air flow over a car model and determine the drag coefficient and pressure and velocity contours and graphs.

• CAD Modelling of a Lathe Machine
Used PTC Creo to design a simple lathe machine.

• Employee Management System (C++)
Used C++ to make an Employee Management System. Incorporated functions, arrays, strings, pointers and file manipulation.

• Solar (PV) Panel Analysis and Design Optimization Over a Wholesale Commercial Supermarket
Used HelioScope to perform a solar panel analysis over Metro Cash and Carry, new proposed design increased energy production by 20%.

• High Cycle Fatigue Analysis on Wind Turbine in Extreme Wave Conditions in the Arabian Sea

LANGUAGES

Urdu	
English	
German, A1	

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