

Muhammad Saad Sohail

Mechanical Engineering

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PROFESSIONAL SUMMARY

Final year BSc. Mechanical Engineering student with a desire to polish his Technical as well as Non-Technical Skills. Interests include Design for Manufacturing, Automotive Industry, Program Management and Quality Management Processes.

EXPERIENCE

Byonyks - Trainee Engineer QMS January 2023 - Ongoing

Quality Management Services Position. Implementing ISO 13485 and Regulatory functions for FDA accreditation.

Internship at HMC (Heavy Mechanical Complex)

6-Week internship. Learnt machining, fabrication and foundry processes used in the industry. Observed and learnt from various management challenges in the industry

Got design experience in the Design and Analysis Wing.

Team Manager of NUST Automotive Group

Largest student led society of NUST CEME. Consisting of 100+ members. Incharge of the Shell Eco-Marathon wing of NUSTAG. Manufactured and optimized an Internal Combustion Engine passenger vehicle.

Major role in the Marketing of the team.

Winner of Shell Eco-Marathon Pakistan 2021.

Co-Founder of NUSTAG Project Sar'at the Formula Student wing of NUSTAG.

6-Month Program Management Specialization by Google

Head of Program Management HULT PRIZE CEME 2022

Conducted the inaugural event at NUST CEME.

Led a team of 12 people to smoothly manage the University wide event.

Co-Founder EMS Aghaaz Program

Innovation and Program Manager at EMS High School Islamabad. Career counselor and mentor for A-Level students.

EDUCATION

Mechanical Engineering - NUST, CEME

CGPA : **3.83**

A-Levels 1A*s, 2As

O-Levels 5A*s, 4As

PROJECTS

Design and Fabrication of a 4 DOF Collaborative SCARA

Final Year Project in the field of robotics and automation. Designing a **Collaborative Robotic Arm** for medical industry automation.

Photovoltaic (PV) Panel Analysis and Design Optimization of a Commercial Super Market

Project site was METRO Cash and Carry Islamabad.

Helioscope was used for analysis and **SketchUp** was used for 3D-Modeling

HVAC Load Calculation and Central Aircondition Design of a Residential Home

Used HAP software for load calculation of a 5-Marla house. Solution was then modeled in SketchUp.

SKILLS

CAD

Programming

Graphics

SolidWorks

C++

Illustrator

PTC Creo

MATLAB

Photoshop

Onshape

Python

Canva

ANSYS

Microcontrollers

AutoCAD

Soft Skills

Experience with work management software such as **Asana, Trello, Jira** and **Notion**.

Program Management

Graphic Designing

Public Speaking - Teamwork - Leadership
Organization Skills - Time Management