

# ENGR. MUHAMMAD OSAMA

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## SUMMARY

Experienced **Mechanical Engineer** in full product development lifecycle, from prototype to production, including design, modeling, and documentation. Proficient in multiple CAD software for part and assembly design, with expertise in DFM and 3D printing. Skilled in generating BOMs and technical documentation, collaborating effectively with cross-functional teams. Proven ability to deliver successful project outcomes through detailed planning and specifications.

## TECHNICAL SKILLS:

MS-Office, Basic C++, Basic Python, PTC Creo, SolidWorks, Onshape, Siemens NX, Basic Windchill, Basic AutoCAD, Manufacturable 2D Drawings, Basic Finite Element Analysis (FEA), Basic Computational Fluid Dynamics (CFD), Design For Manufacturing and Assembly (DFMA), 3D Printing, Rapid Prototyping, Problem-Solving and Documentation.

## PROFESSIONAL EXPERIENCE

### WOOT TECH PVT LTD.

#### Design Engineer (CAD)

KARACHI, PAKISTAN

(2 Years) Aug 2022 – Sep 2024

- Experienced in Product Development from prototype to production phase.
- Designed CAD and modelled manufacturable parts on CAD.
- Experienced in the handling, planning and integration of large assemblies through CAD.
- Developed CAD; scaled and production-ready part and assembly drawings, including parts list generation.
- Engineered Bills of Materials (BOMs), models, and detailed technical documents for systems and subassemblies.
- Utilized basic PTC Windchill for CAD task management.
- Precisely conducted calculations, planning, and specifications for successful project outcomes.
- Demonstrated expertise in Design for Manufacturing and Assembly (DFMA) and 3D printing methods.
- Drafted and maintained accurate technical specification reports and project documentation.
- Maintained accurate technical specification reports and project documentation.
- Collaborated with cross-functional teams, including electrical engineers and software developers for product development.

### KIA MOTORS

#### Internship

KARACHI, PAKISTAN

Feb 2021 – Mar 2021

- Formulated A3 problem-solving report to streamline the production process of Chassis station in the assembly plant.
- Presented several strategies to the Head of Assembly and Managing Director to optimize the Chassis Station production process and address bottlenecks in the assembly plant.
- Compiled comprehensive “Manifest” and “Keypoints” documentation for production of Sorento, Sportage, and Picanto models.

### KARACHI SHIPYARD AND ENGINEERING WORKS

#### Internship

KARACHI, PAKISTAN

01 Oct – Oct 2020

- Pro-actively learned about the working of CNC laser machine, CNC Router, CNC Lathe.
- Acquired experience in reading and comprehending 2D drawings for repair purposes.

## EDUCATION & OTHER

### Bachelors of Engineering in Mechanical

(Sep 2022)

DHA Suffa University, Karachi, Pakistan.

- **Major Courses:** Machine Design and CAD I & II, Manufacturing Process, Engineering Drawings, Engineering Dynamics, Mechanical Vibrations, Mechanics of Materials, ME Design Project I & II and Project Management.

### Erasmus+ Youth Exchange Certification - (Responsible TikTok and Instagram Use)

- Developed tolerance to combat online bullying.
- Raised awareness about online harassment by giving presentations.
- Acquired expertise in photography and film production for educational purposes.

### LANGUAGES:

English - C1 (Fluent)  
German - B1 (Intermediate)

### HOBBIES:

Photography – Cricket – Exploring places  
– Cooking