

ENGR. IBRAHIM OMER

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PROFESSIONAL SUMMARY

Automotive Engineering graduate with a Master's in Mechanical Design and 6 years of industry experience. Skilled in CAD, CAM, and CAE. Currently working in Engineering & Development Department at HinoPak Motors, involved in part development, project coordination, and working with cross-functional teams. Also working as a freelance mechanical designer and creating CAD, CAM, and CAE related content on the YouTube channel CADable.

PROFESSIONAL EXPERIENCE

HinoPak Motors | Oct 21 ~ Current

Design Engineering Executive (Oct 21~Oct 23)

- Design testing & costing of Sheet metal parts in truck and bus bodies
- Dutral truck chassis reinforcement study
- Feasibility study of GB, CLD buses birdcage
- Design Roof ventilator assembly of CLD bus
- FEA of store racks for load validation
- Analysis and fabrication Jumbo Cross Member 500 Series
- Center of Gravity (CG) calculation of GT Truck
- Correlation of GB bus radiator
- External advisor of NED FYP Project & supervisor of Interns
- Initiated the adoption of Solidworks software (2022), implemented in (2025)
- Active participation in 5S, Energy Conservation and Continuous Improvement activities

Production Engineering Executive (Nov 23~Jun 25)

- Manufacturing of high side wall truck in proto shop
- Dutral side view mirror pipe in-house manufacturing
- IMV export racks project design and costing
- IMV FSR study related to CF changes
- Feasibility study of 500 series truck spoiler
- In-house tooling facility of 20 Deletion parts
- Safety kaizen of shop floor
- CO2 reduction activities
- Supervision of proto and production engineering

Technical Compliance Executive (July 25~Current)

- Project UNR 2nd phase 45 regulations related to trucks & buses
- Toyota frames tooling verification study Big Improvement Model (BIM)
- EDB data reconciling related to SRO-655 and SRO-656
- Document Coordination with Japan related to ECN, Drawings, Standards

Dawood Engineering Pvt. Ltd., Karachi | Feb 2021 – Oct 2021

Senior Technical Officer

- Managed development processes from customer drawing to finished product delivery
- Collaborated with cross-functional teams to reduce part and process costs
- Verified and analyzed dies and molds provided by toolmakers for manufacturability
- Analyzed casting and stamping process flows to optimize production efficiency
- Reviewed OTS samples and prepared comprehensive inspection reports
- Created technical drawings for various gauges and inspection equipment
- Developed standardized documentation including PQCT I, PQCT II, OPS, PPAP documents, FMEA
- Coordinated with quality and production teams to ensure smooth initial part development
- Maintained documentation related to QMS (IATF 16949)

Ghandhara Nissan Limited (GNL), Karachi | Dec 2020 – Feb 2021

Project Engineer

- Conducted time studies of production processes across cab metal shop, paint shop, trim line, main line, and welding shop
- Designed layout for trim line, main line, and welding shop using AutoCAD
- Identified bottlenecks and suggested process improvements to increase production capacity
- Established time standards for stations to improve line balancing

Crown Group of Companies (Crown Lifan), Karachi | Nov 2019 – May 2020

Trainee Engineer

- Created patent drawings for 3-wheeler loader gearbox
- Contributed to the fabrication of electric bike prototypes
- Produced detailed 2D drawings of parts and assemblies
- Developed comprehensive bill of materials (BOM) for Chinese electric loader

Loads Limited, Karachi | May 2019 – Jun 2019

Intern Engineer

- Studied manufacturing procedures for automotive components including radiators, mufflers, and exhaust assemblies
- Observed interlinkages between different departments in automotive manufacturing

EDUCATION

M.E. Mechanical Design Engineering

NED University of Engineering and Technology, Karachi | 2022 – 2025

B.E. Automotive Engineering

NED University of Engineering and Technology, Karachi | 2015 – 2019

SKILLS

Software Skills	Soft Skills
Solidworks	Leadership
AutoCAD	Time Management
Ansys	Teamwork
Solid Edge	Problem Solving
Keyshot	Cross Functional Collaboration
Filmora	Communication
Audacity	Research

CERTIFICATIONS & ACTIVITIES

- Certified SolidWorks Associate (CSWA)
- SolidWorks Champion Award
- AutoCAD Certification (DigiSkills)
- Toyota 5S Methodology Certification
- 100 Marks in Wifaq Exam (Hifz-ul-Quran)
- Pakistan Engineering Council (PEC) Registered Engineer
- Advanced Excel Certification (TXI)
- CAD Instructor at CADable YouTube Channel
- Prime Minister Laptop Awarded