Mohammed Irfan

Design Engineer

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PERSONAL STATEMENT

Design engineer with 1.5 years of experience in 3D modelling and 2D detailing of sheet-metal and casting parts for commercial-vehicle cabs. Proficient in CATIA V5 and Siemens NX with GD&T, DFM checks and release through Teamcenter, and backed by a strong final-year chassis design project.

WORK EXPERIENCE

Design Engineer · Vandalur Engineering Design Services Pvt Ltd, Oragadam, Chennai — Jun 2024 – Present

- Model and detail 60+ sheet-metal brackets, panels and reinforcements for a truck cab programme in CATIA V5.
- Reduced the weight of a cab mounting bracket by 14% through rib optimisation, verified with linear static analysis by the CAE team.
- Prepare 2D drawings with GD&T and tolerance stack-ups, with a first-time-right release rate of 92% in drawing audits.
- Run DFM reviews with toolmakers and suppliers, closing 35 manufacturability comments before tooling release.

EDUCATION

B.E. in Automobile Engineering · Crescent College of Engineering, Chennai — 2020 – 2024
Grade: 8.4 CGPA

SKILLS

CATIA V5 | Siemens NX | SolidWorks | GD&T | Tolerance stack-up | Sheet-metal design | ANSYS basics | Teamcenter

CORE SKILLS

- 3D modelling
- 2D detailing
- Design for manufacturing
- Design reviews
- Attention to detail

PROJECTS

Design and analysis of a lightweight ATV chassis · Chassis design lead — Jul 2023 – Mar 2024

Final-year and student competition project to design a tubular space-frame chassis for an all-terrain vehicle.

- Modelled the frame in SolidWorks and ran front, side and rear impact analysis in ANSYS.
- Reduced frame weight from 38 kg to 31 kg while keeping a factor of safety above 1.5.
- Prepared fabrication drawings and supervised cutting and welding of the frame.

CERTIFICATIONS

NPTEL: Design for Manufacturing and Assembly · NPTEL — Oct 2023

LANGUAGES

English · Professional | Tamil · Fluent | Urdu · Native | Hindi · Conversational

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