SHUBHAM KANGUNE

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Pune, Maharashtra

PROFESSIONAL SUMMARY

Entry-Level Mechanical Design Engineer with hands-on experience in **CATIA V5**, **Plastic Product Design for Injection Molding**, and **GD&T (ASME Y14.5)**. Skilled in part and surface modeling using **Generative Shape Design (GSD)**, close body methodology, and master sections. Experienced in designing manufacturable mechanical and plastic components with proper datum selection, tolerances, and **Design for Manufacturability (DFM)** principles. Completed an industrial internship in blanking die design with exposure to **2D manufacturing drawings** and **3D CAD modeling**.

TECHNICAL SKILLS

Tools & Software: CATIA V5, SolidWorks, AutoCAD, Fusion 360, ANSYS (Basic)

CAD & Surfacing: Part Design, Assembly Design, Drafting, Generative Shape Design (GSD), A–B–C Surface Methodology

Plastic Product Design: Injection molding rules, wall thickness, draft angles, ribs, bosses, gussets, snaps, locators, parting line, tooling direction

GD&T: ASME Y14.5, datum reference frame, FCF, MMC/LMC/RFS

INTERNSHIP EXPERIENCE

Maxpertise Technology Labs Pvt. Ltd., Bengaluru
Mechanical Design Intern

- Supported design and optimization of sheet metal blanking dies
- Created 3D CAD models and 2D manufacturing drawings with GD&T

PROJECT EXPERIENCE

Automotive Door Trim Panel – Plastic Interior Design
Design Practice Project | CATIA V5

- Converted a complex automotive interior surface into a manufacturable door trim panel using A–B–C surface methodology
- Optimized draft angles, wall thickness, and surface quality for injection molding

Automotive Driver Side Switch Bezel – Plastic Interior Trim Design
Design Practice Project | CATIA V5

- Designed a compact driver side switch bezel with multiple switch openings and aesthetic surface control
- Ensured ergonomic layout and injection-mold-ready draft conditions

Automotive Door Trim Map Pocket – Plastic Interior Design
Design Practice Project | CATIA V5

- Developed a door trim map pocket focusing on strength and load-bearing geometry
- Applied thickness control and draft angles for daily-use durability

Automotive Interior Grab Handle Bracket – Plastic Trim Design
Design Practice Project | CATIA V5

- Designed a structural grab handle bracket focusing on mounting and load support
- Incorporated ribs and bosses while following molding guidelines

Leather Strip Cutting Device
Industry-Sponsored Final Year Project | SolidWorks, CATIA V5

- Designed and developed a semi-automated leather strip cutting machine
- Delivered a functional prototype sponsored by Divyam Leather Crafts Pvt. Ltd.

EDUCATION

Ajeenkya D.Y. Patil School of Engineering 2022 – 2025
B.E. in Mechanical Engineering | CGPA: 7.2 / 10

Ashok Institute of Engineering & Technology Polytechnic 2019 – 2022
Diploma in Mechanical Engineering | 72.46%

CERTIFICATIONS

CATIA V5 – Plastic Product Design (Skill-Lync)

AutoCAD Certified – Disha Institute

Fusion 360 – Autodesk

ADDITIONAL INFORMATION

Portfolio: Automotive plastic design projects available at shubhamkangune.vercel.app

Languages: English, Hindi, Marathi