

# ROSHAN KUMAR.S

JUNIOR DESIGN ENGINEER

## ABOUT ME

Mechanical Design Engineer with 1+years of experience in automotive and mechanical part design. Skilled in CATIA V5, GD&T, and surface modeling. Proven ability to deliver high-quality 3D models, concept layouts, and detailed drawings. Passionate about innovation and committed to continuous improvement.

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## EDUCATION

### B.Tech in Mechanical Engineering

2022-2025  
SRM INSTITUTE OF SCIENCE AND TECHNOLOGY, CHENNAI

### Diploma In Mechanical Engineering

2017-2019  
SRI SAI RAM POLYTECHNIC COLLEGE, CHENNAI

## TECHNICAL SKILLS

- 3D PART DESIGN
- ASSEMBLY
- DRAFTING DETAILING
- REMASTERING
- SHEET METAL
- GD&T APPLICATION
- SURFACE MODELLING
- BOM MANAGEMENT

## SOFTWARES KNOWN

- AUTOCAD
- CATIA-V5

## WORK EXPERIENCE

### FUSION FORGE INNOVATION,HOSUR(SEP 2024- PRESENT) JUNIOR DESIGN ENGINEER

#### PROJECTS:

Design and development of an Drive shaft components using Catia V5. This project involved the complete design and development of an Drive shaft components assembly with a focus on aesthetic appeal, durability, and manufacturability

#### Responsibilities:

- Designed and developed 3D models of automotive propeller shaft components including universal joints, flanges, yokes, and bearing housings using CATIA V5.
- Implemented remastering techniques to enhance design accuracy and manufacturability.
- Collaborated with clients and senior engineers during all product development stages to ensure design feasibility.
- Prepared detailed 2D drawings with accurate dimensions and GD&T for manufacturing.
- Designed sheet metal enclosures, brackets, and panels as per automotive requirements.
- Participated in design reviews and implemented feedback to enhance product quality and assembly feasibility.
- Assisted in evaluating and reducing production costs through improved design strategies.

## **MANAGEMENT TOOLS**

Microsoft Office (Word & Excel)  
and Microsoft Power Point

## **SOFT SKILLS**

- Teamwork & collaboration
- Research & analytical skills
- creative & critical thinking
- Attention to details
- professional ethics

## **BRAKE AND CLUTCH SYSTEMS (DESIGN AND DEVELOPMENT)**

- Design and developed brake and clutch components including brake caliper, brake disc (rotor), pad, hub, mounting bracket, and clutch assemblies with a strong emphasis on accuracy, and manufacturability
- Conducted Design for Manufacturing & Assembly (DFM/DFA) reviews in collaboration with cross-functional teams to align design outputs with production readiness.
- I have Modeled critical components such as brake disc, brake caliper, pad, hub, and mounting bracket ensuring precise alignment, functional fit, and assembly integrity.
- Produced manufacturing-ready 2D engineering drawings, complete with detailed tolerances and GD&T callouts, compliant with industry standards for production release.

## **DAIMLER INDIA COMMERCIAL VEHICLE (DICV), ORAGADAM(2023-2024)**

### **TRAINEE**

- Assisted the production and quality teams in daily manufacturing operations of automotive components.
- Monitored machine processes and line activities to ensure adherence to production standards and schedules
- Conducted in-process and final inspections using measuring instruments like Vernier calipers, micrometers, and gauges.
- Reported and analyzed defects, rework, and process deviations, supporting root cause analysis and corrective actions.
- Collaborated with supervisors to implement quality control measures and improve production efficiency

### **DECLARATION:**

I hereby declare that the information furnished above is true to the best of my knowledge.