

SHREYA M AMMANAGI

Mechanical Engineering | CAD & Product Design | CATIA | 3DEXPERIENCE | Fusion 360 | Automotive & Robotics
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PROFESSIONAL SUMMARY

Mechanical Engineering student with hands-on experience in CAD design, 3D modeling, mechanical systems, robotics, and manufacturing processes. Proficient in CATIA V5, Fusion 360, and AutoCAD, with practical project experience in energy harvesting, thermal management, laboratory inventory systems, and robotic design. Strong leadership and coordination experience through technical events and student activities. Interested in mechanical design, product development, automotive engineering, CAD/CAE, and robotics.

PROJECTS

Vertical Suspension Energy Harvesting System | Major Project – Ongoing

Designed a system to convert vehicle suspension vibrations into electrical energy using electromagnetic induction for sustainable energy harvesting.

Vehicle Cabin Roof Overheating Reduction Using Phase Change Material (PCM)

Developed a passive cooling approach using phase change material to reduce cabin roof heat, improve thermal comfort, and reduce air-conditioning load.

Smart Inventory Management System for Mechanical Laboratories

Developed a digital inventory system to manage laboratory equipment, track stock, and streamline issue/return records.

Robotic Arm Design & Simulation | CATIA V5

Designed and simulated a robotic arm with focus on 3D modeling, assembly design, motion analysis, and structural performance.

EDUCATION

KLS Gogte Institute of Technology | B.E. Mechanical Engineering | 2023–2027

Mahatma Gandhi PU College | Pre-University (PU)

St. Joseph's Convent High School | SSLC (10th Grade)

TECHNICAL SKILLS

CAD & 3D Modeling: CATIA V5, 3DEXPERIENCE, Fusion 360, AutoCAD, Blender, 3D Part Modeling, Assembly Design

Mechanical Design: Mechanical Design, Product Development, Engineering Drawing, Motion Analysis, Mechanical Systems

Manufacturing: CNC Machining, 3D Printing, Manufacturing Processes

Simulation & Engineering: Structural Analysis, Mechanical System Simulation, Energy Harvesting Systems

Robotics: Robotic Arm Design, Robotics, Motion Simulation

Engineering Tools: Dassault Systèmes Tools & Applications

Professional Skills: Technical Event Coordination, Team Leadership, Project Management, Communication

CERTIFICATIONS

CIDIA – Skill Development Program

Robotics & CNC – Skill Development Program | Approved by GTTC

JASC Challenge 2026 – E-Learning Course | Offered by JANATICS | 91.67% | Aug 2026

Merit Certificate – Best Tinkerer | NITI Aayog AI Tools

Workshop Certification | be10x | Issued Mar 2026

POSITIONS OF RESPONSIBILITY

Technical Student Council – KLS Gogte Institute of Technology

Public Relations Officer (PRO) – Rotaract Club, KLS GIT

Publicity Lead – IEEE WIE, KLS GIT

Event Lead – Unified

CORE COMPETENCIES

CAD Modelling • Product Design • Mechanical Design • Assembly Design • GD&T • Robotics • Automotive Systems
• Simulation • Prototyping

RELEVANT ELECTIVES

- Introduction to Vibration
 - Introduction to Electronics
 - Introduction to IoT
 - Introduction to Python Programming
 - Renewable Energy Resources
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English, Kannada, Hindi