

SUDARSHAN DAMMANAGI

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PROFESSIONAL SUMMARY

Detail-oriented Mechanical Engineering student with a strong foundation in parts design, CAD modeling, and product development. Proficient in CATIA V5 and Fusion 360, with working knowledge of Python for engineering applications. Demonstrated ability to apply design and simulation principles through hands-on academic projects, with a keen interest in translating theoretical concepts into practical, manufacturable solutions. Eager to contribute technical skills and a strong work ethic to a dynamic engineering team.

EDUCATION

Bachelor of Engineering – Mechanical Engineering

KLS Gogte Institute of Technology, Belagavi, Karnataka – 590008 | CGPA: 7.4

April 2027

Higher Secondary Education (PUC)

Holy PU College, Bidi, Belagavi, Karnataka – 591112 | Percentage: 74%

May 2023

Secondary School Education (SSLC)

Holy Cross Convent School, Bidi, Belagavi, Karnataka – 591112 | Percentage: 78%

July 2021

KEY SKILLS

- CATIA V5 — 3D part modeling, assembly design, and detail drafting
- Fusion 360 — CAD design, parametric modeling, and simulation basics
- Python — Basic scripting and programming for engineering problem-solving
- Engineering fundamentals — GD&T, design for manufacturing (DFM), and product design principles
- Strong analytical thinking, technical documentation, and cross-functional teamwork

PROJECTS

Survey on Electric Vehicle Adoption and Public Perception (Mini Project)

- Designed and conducted a structured survey to assess public awareness and perception of electric vehicles (EVs)
- Analyzed key adoption drivers — cost, charging infrastructure, environmental impact, and performance — to identify barriers and opportunities in the EV market
- Presented findings through data-driven insights to support informed recommendations on EV outreach

Alternate Pre-Heating Method for Pouring Ladle Using Electric Coil (Major Project)

- Engineered an alternative electric-coil-based preheating method for pouring ladles to improve heating efficiency and reduce fuel consumption
- Designed and analyzed the system with a focus on uniform heat distribution, energy efficiency, and safe operation
- Evaluated performance against conventional preheating methods, demonstrating potential for reduced operating costs

CERTIFICATIONS

- Product Design and Manufacturing — NPTEL
- Revolutionizing Manufacturing — 3D Printing Workshop
- Basic Python Programming — Codefob

ACTIVITIES & LEADERSHIP

- NSS Volunteer — Actively participated in a 7-day residential camp, contributing to community service initiatives and collaborative teamwork activities

CAREER OBJECTIVE

Aspiring to build a career as a Parts Design Engineer, contributing to innovative product development through strong CAD proficiency, analytical design thinking, and a commitment to continuous learning in mechanical engineering practices.

HOBBIES & INTERESTS

Online & Outdoor Games • Music • Nature Exploration • Adventure Trips