

SANJAY M

MECHANICAL DESIGN ENGINEER | SOLIDWORKS EXPERT |
3D CAD & PRODUCT DESIGN

CONTACT

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EDUCATION

B.E MECHANICAL ENGINEERING

KGiSL Institute of Technology, Tamil Nadu, India
2023-2027

SKILLS

- Design Tools:** SolidWorks (Part, Assembly, Drafting, Sheet Metal)
- Programming:** Javascript, Python (basic), Numerical Methods
- Other Tools:** GitHub, GrabCAD, Microsoft Office
- Soft Skills:** Problem-Solving, Communication, Attention to Detail

LANGUAGES

- English (Fluent)
- Tamil (Native)

CAREER OBJECTIVE

Highly motivated Mechanical Design Engineer with hands-on expertise in 3D modeling, product design, and SolidWorks. Skilled in developing practical design solutions and basic software automation. Seeking global opportunities to contribute to innovative mechanical systems and product development.

PROJECTS

Mechanical Design Projects (SolidWorks)

- Wheel barrow - Engineered for load balance and stability.
- Electric Motor - Modeled as a single part to represent core geometry and housing structure.
- Bending Roller Machine - Modeled for sheet metal forming with focus on roller alignment and mechanical strength
- V-block, Rubik's Cube, Tension Rod - Demonstrated knowledge of constraints, assembly, and motion.
- Rotor Motor, Clamp - Focused on mechanical movement and fit.

Programming Project

- Timetable Generator** (JavaScript) - Built a dynamic schedule planner based on constraints.
- Numerical Method Solver** (JavaScript) - Solved academic problems programmatically.
- Finance Tracker** (Python) - Automated expense tracking with file integration.
- CGPA Calculator** (JavaScript) - Customized tool for 2021 Mechanical curriculum.

CERTIFICATIONS

- SolidWorks Certification** - In Progress
- Coursera** (25+ certificates) - Topics include Design for Manufacturing, Engineering Mechanics, and CAD Fundamentals
 - Heavy Manufacturing process and system - L & T Edu Tech
 - Introduction to Thermodynamics: Transferring Energy from Here to There - university of michigan