

Sanjay M

Mechanical Design Engineer | 3D Design | SolidWorks Specialist

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Career Objective

Motivated Mechanical Design Engineer with strong 3D modeling skills using SolidWorks and a growing foundation in software development. Experienced in developing practical design projects and academic tools through JavaScript and Python. Seeking international opportunities to apply design knowledge in real-world mechanical systems and contribute to innovation.

Education

B.E. Mechanical Engineering

KGiSL Institute of Technology, Tamil Nadu, India

2023 - 2027 (Expected)

Technical Skills

- SolidWorks (Part, Assembly, Drafting, Sheet Metal)
- Fundamentals of JavaScript and Python
- GitHub, Numerical Analysis, Problem-Solving

Projects

Mechanical Design Projects (SolidWorks):

- Wheel Barrow - Engineered for load balance and stability.
- Rotor Motor & Clamp - Focused on mechanical movement and fit.
- V Block, Tension Rod, Rubik's Cube - Demonstrated knowledge of constraints, assembly, and motion.

Programming Projects:

- 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 (In Progress)
- 25+ Coursera Certificates in mechanical engineering concepts, CAD, design thinking, and related academic subjects.

Languages

- English (Fluent)
- Tamil (Native)