SAKTHIBALA PRABAKARAN

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EDUCATION

College of Engineering Guindy, Anna University

- B.E. Mechanical Engineering
- Current CGPA: **8.92**

Ram Jayam Vidyaa Mandhir Matric Hr. Sec. School, Cumbum, Theni Dt.

- HSC - **96.67%**
- SSLC - **97%**

TECHNICAL SKILLS

- SolidWorks
- Catia
- AutoCAD
- Ansys Workbench
- Ansys Granta (*Material Selection*)
- Python
- MS Office

SOFT SKILLS

- Team Management
- Effective Communication
- Adaptability
- Active Listening
- Presentation Skills
- Leadership

ACTIVITIES DONE

Placement Representative 2024 - PRESENT

Centre for University Industry Collaboration, CUIC

CEG Tech Forum 2022-2024

Co-ordinator & Volunteer - Event domain

AstroClub of Anna University: 2023-2024

Office Bearer - Content and QMS domain

LANGUAGES

Tamil | English | Hindi (Basic)

ABOUT MYSELF

Knowledge oriented and passionate Final Year MECHANICAL ENGINEERING Student. CAD and Astronomy enthusiast. Quick learner with excellent self-learning skills and good academic knowledge. Currently learning FEA to strengthen my Mechanical Design skills.

EXPERIENCE & PROJECTS

CEG Motorsports 2024--PRESENT

ROLLCAGE ENGINEER; Alumni Relations Lead

- Official member of Society of Automotive Engineers (SAE) .
- Gained hands on experience in Catia, Ansys, SolidWorks and machining activities.
- Contributed to the team securing **AIR 4** in **BAJA Sustainability** and **AIR1** in MegaATV Championship.

Saint Gobain India Pvt, Ltd. June 2025 to July25

PROJECT INTERN

- Worked on real-time industrial problem solving, *root-cause identification* and *line maintenance*.
- Applied **Kaizen** methodology using World Class Manufacturing (**WCM**) **tools**.

Larsen & Toubro Construction June 2024 to July 2024

INTERN

- Obtained hands-on experience on various quality tests done on concrete. Conducted site visits to interview site engineers to understand project workflow.

Project: SolenixIC (Mechanical Domain) CEG Tech Forum

- Developed a prototype of a novel hybrid engine that combines an internal combustion (IC) engine and an electrical engine to improve power output and range.
- Worked in Material Selection, SolidWorks, Ansys
- Negotiated with vendors during procurements. Received a **Letter of Appreciation (LOA)**

Vibration Monitoring and Analysis in 3D Printers Team Lead

Under Dr. M Pradeep Kumar, Professor, Department of Mechanical Engineering

- Working on analyzing vibrations at the nozzle and bed of a 3D printer and correlate them with print defects like warpage and distortion.

Research Projects

Under Dr.Samuel Raj, Associate Professor, Department of Mechanical Engineering

- **Chip Morphology Study:** Studied the effect of texture on tool inserts by analyzing chip morphology using a Coordinate Measuring Machine (CMM).
- **Flatness Study Using Electronic Level:** Used advanced electronic level, Talyvel 6 to study the flatness of various surfaces.

INTERESTS: Thermodynamics |Strength of Materials | Metal Cutting

HOBBIES: CAD Design | Book Reading