

ALWIN SOOSAI M

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PROFESSIONAL SUMMARY

Mechanical Engineering student with a Diploma background and hands-on internship experience in CAD Modeling, BIM, Manufacturing, and Industrial Operations. Skilled in AutoCAD, SolidWorks, Siemens NX CAD, Autodesk Revit, MS Office, and CNC fundamentals, with knowledge of 2D & 3D modeling, engineering drawings, and GD&T basics. A responsible and adaptable team player with a strong interest in Mechanical Design, BIM, PHE & FPS Design, and Automobile Engineering, seeking opportunities to apply technical skills and develop practical industry knowledge.

EDUCATION

Bachelor of Engineering – Mechanical Engineering

August 2024 – May 2027

Ramco Institute of Technology, Rajapalayam, Tamil Nadu CGPA: 6.78 / 10 (Till 5th Semester)

Diploma – Mechanical Engineering

Sep 2021 – May 2024

P. A. C. Ramasamy Raja Polytechnic College, Rajapalayam, Tamil Nadu Percentage: 75.93%

INTERSHIPS

GOWRIHOUSE METAL WORKS LLP – Rajapalayam, Tamil Nadu

Dec 15 – Dec 30, 2022

Mechanical Engineering Intern

Observed screw manufacturing, machining operations, and quality inspection processes.

S.R.J. ENTERPRISE – Virudhunagar, Tamil Nadu

May 29 – Jun 07, 2023

Mechanical Engineering Intern

Observed dal processing operations, production workflow, machinery operations, and quality control procedures.

RAMCO MILLS PVT. LTD. (RJPM) – Rajapalayam, Tamil Nadu

Jun 18 – Jul 02, 2025

Mechanical Engineering Intern

Observed weaving, dyeing, machinery operations, and quality control in textile manufacturing.

INNOWELL ENGINEERING INTERNATIONAL PVT. LTD. – Maraneri, Sivakasi

Jul 07 – Jul 30, 2026

PHE & Fire Protection Design Intern

Observed PHE & Fire Protection System design, BIM modeling using Autodesk Revit, and engineering drawings.

PROJECTS

Biogas Production Using Food Wastes (Diploma Project)

Team Size: 5 Members | Role: Team Leader

- Led the team in biogas production using food waste and supervised system maintenance and operations.
- Prepared project documentation and technical reports using Microsoft Word.

Design and Fabrication of a Non-Return Valve Using 3D Printing (B.E. 3rd Year Project)

Team Size: 4 Members | Role: Project Team Member

- Assisted in CAD modeling using SolidWorks and Siemens NX CAD for the design of a non-return valve.
- Supported fabrication using a Bambu Lab FDM 3D printer and prepared technical documentation and project reports using Microsoft Word.

SKILLS SUMMARY

Soft Skills

Teamwork & Collaboration | Adaptability | Time Management | Responsibility | Work Ethics | Self-Motivation

Technical Skills

AutoCAD | SolidWorks | Siemens NX CAD | Autodesk Revit | CAD Modeling | Engineering Drawings | GD&T Basics
| CNC Fundamentals | Microsoft Office

AREA OF INTEREST

2D & 3D Modeling | BIM – PHE & FPS Design | Automobile

ACHIEVEMENTS

- Completed the **AICTE Agnirva Space Internship**, gaining practical exposure to space technologies (March 2025).
- Completed the **Industry 4.0** Certification Program, sponsored by **Naan Mudhalvan and TANSAM** (February 2025).
- Served as **Student Coordinator for RoboMania 2026**, a **National-Level Robotics Competition** (April 2026).
- Participated in the "**Supercharge Yourself with AI**" session organized by the **NDLI Club**, IIT Kharagpur.
- Participated in the IIC Impact Lecture Series on Intellectual Property Rights (IPR) and **IP Management for Start-ups** (July 2022).

PROFESSIONAL MEMBERSHIPS

- **ISHRAE** – Indian Society of Heating, Refrigerating and Air Conditioning Engineers — Student Member
- **IEI** – The Institution of Engineers (India) — Student Member

CERTIFICATIONS

- **AutoCAD** Training Program – Techquasar Dynamics, 2025.
- **Mastering SOLIDWORKS** (2024-25): A Complete Course by Udemy
- **Siemens NX CAD** Training Program – Harita Techserv Pvt. Ltd., Dec 22–30, 2025.
- NPTEL – **Product Design and Manufacturing** (12-Week Course), Jan–Apr 2026.
- Automated Responses with GPT Assistant API for React Agents – Coursera Project Network, May 2025.
- **Front-End Web Development** (HTML & CSS) for Personal Portfolio Website Development – Techquasar Dynamics, 2025.

TECHNICAL WORKSHOPS

- Attended a **workshop on Industry 4.0 and its Applications in Manufacturing Industries**, organized by **TANSAM** (August 2023).
- Participated in **Internal Hackathon 2023** – P.A.C. Ramasamy Raja Polytechnic College (September 2023).
- Attended the **Solar Ambassador Workshop**, organized by the Energy Swaraj Foundation, gaining knowledge of renewable energy concepts (September 2024).
- Attended an **HVAC Workshop organized by ISHRAE**, gaining knowledge of HVAC systems.
- Attended a workshop on **Digital Twin Technology** at Government Engineering College, Tirunelveli (April 2026).

LANGUAGES

- Tamil – Native
- English – Read, Write, and Speak