Sanat Ramasubramanian

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Education

Vellore Institute of Technology	Vellore, India
B.Tech Mechanical Engineering(core); GPA: 8.17 (Upto 3th semester)	*2024-2028*
FIITJEE Global School (CBSE), Vengambakkam	Chennai, India
AISSCE: 85%	*2023-2024*
Maharishi Vidya Mandir (CBSE), Polachery	Chennai, India
AISSE: 87%	*2021-2022*

Projects

Team Albatross | *SolidWorks 2024*   Feb 2026
- Contributed to the Design and fabrication of a remotely controlled regular-class aircraft with the following specifications:
  - Length + Width + Height: 150 inches
  - Weight without payload: 3.6 kgs
  - Total Weight: 12 kgs
- Has a max speed of 14 m/s under normal conditions, has a rectangular Aluminium 6061-T6 spar for its wings
- Primarily made out of Balsawood and Aeroply.
- Co-ordinated the laser cutting process to obtain the landing gear
- Built to be flown in the upcoming SAE-ISS Drone Development Challenge 2026
- Can carry a payload up to 6 kilograms

Achievements and Experience

Certified − CSWA (2024)
- Obtained Certified SolidWorks Associate certificate from Dassault Systèmes, demonstrating fundamental proficiency in CAD software

Core Member (CAD and Structures) −   Team Albatross
- Was a member of the CAD and Structures Department of Team Albatross

Value Added Program(pursuing) −   Boeing
- Currently attending a course offered by Boeing India Pvt. ltd., which covers Requirements management and systems safety assessment, Product Design and Development, Structural Analysis and Testing, and Configuration Management

Design-a-thon − Team Leader   Team Endurance
- Was the team leader in VORTEX-360, a 3-day design-a-thon, organized by AUTODESK.
- Designed an autonomous drill that can move in multiple directions, with movable drill sections.

American Society of Mechanical Engineers (ASME-VIT) - HR & Outreach   ASME-VIT Chapter
- Coordinating in the **Human Resources & the logistics section** in ASME-VIT

Workshop on Rocketry
- Used OpenRocket Software to design and fabricate a small working model of a rocket, which flew 134 meters high.

Skills

Software: Python, SolidWorks (2024), ANSYS, Fusion 360, Java, SQL (MySQL), DeepNest, OpenRocket

Relevant Coursework: Machine Drawing, Metal Casting and Welding, Thermal Systems
Currently learning: ANSYS, StarCCM, German(A1), CSWP
Soft Skills: Adaptability, Time management, Collaboration, Multilingual (English, Hindi, Tamil)