

SATHIYANARAYANAN M

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SUMMARY

A dedicated second-year Mechanical Engineering student at Vellore Institute of Technology, Chennai, actively seeking internship opportunities to apply and expand my engineering expertise. Known for a strong commitment to excellence and a collaborative mindset, I bring a proactive approach to problem-solving and innovation. With a proven track record of winning multiple competitions, I thrive in high-pressure environments that demand creativity and precision. Beyond engineering, I possess skills in video editing and coding, which I integrate into my projects to enhance functionality and impact. My goal is to leverage my diverse skill set to contribute meaningfully to real-world challenges, drive innovation, and deliver impactful results in the field of mechanical engineering.

EDUCATION

VELLORE INSTITUTE OF TECHNOLOGY, CHENNAI CAMPUS

08/2023-07/2027

Bachelor of Technology in Mechanical Engineering

Cumulative GPA: 9.07/10 (until third semester)

Relevant Coursework:

Strength of materials; Engineering Mechanics; Thermal engineering systems; Fluid mechanics; Automotive Vehicles;

KAMALANIKETAN MONTESSORI SCHOOL, TIRUCHIRAPALLI

Class 12 CBSE - 73 %

05/2023

- Obtained 83.5 percentile in JEE Mains examination

Class 10 CBSE – 90 %

03/2021

PERSONAL PROJECTS AND PAPERS

Oblique Wing Aircraft (OWA): A Comprehensive Review of Design and Performance, Aerodynamic Innovations and Prospects for the Future (October 2024 - Present)

- The review highlights the Oblique wing aircraft's unique design and performance characteristics, by exploring the historical developments of the OWA.
- Examines the advancements in aerodynamics that enhance efficiency, reducing drag and improved stability and achieve greater speed.
- Also highlights the future prospects of the oblique wing design in both commercial and military fields.

ADDITIONAL

Technical Skills: Solidworks, AutoCAD, SimScale, Ansys, Carla, Matlab, HTML, CSS, JavaScript, Java, Python, Github, Adobe After Effects, Adobe Premiere Pro, Canva.

Core Competencies: Leadership, Time Management, Team Spirit, Effective Communication, Flexibility, Problem Solving.

Languages: English (Working Language Proficiency), Hindi (Working language proficiency), Tamil (Native Language Proficiency).

Awards & Achievements:

- Was one of the active leads of Diseno a technical team, which conducts various technical and non-technical events during TechnoVIT (VIT's Tech fest) and lead the team to several awards.
- **DeepDrive Auto Challenge - Runner-Up**
Designed an autonomous vehicle in CARLA simulation software using python, achieving high performance.
- **Havoltz 25' Hackathon (Mechanical Engineering Track) - Winner**
Designed a suspension system meeting constraints on load management and spring dimensions, securing first place.
- **Reimagine 25' (CAD Modeling) - Winner**
Achieved 99.65% mass accuracy in a 3D CAD modeling challenge, exceeding precision expectations.
- Currently serving as an active member of the CAD club, which is responsible for conducting various events related to CAD.

DECLARATION

I hereby declare that all information given above is true and correct to the best of my knowledge.

SIGNATURE

Sathiyamarayanan M