Madhavan S

Date of birth: 10/01/2004 | **Nationality:** Indian | **Phone:** (+91) 6369456534 (Mobile) | **Email:** madhava2004s@gmail.com | **Address:** 9A/1 Gandhi Nagar 9th Street , 606601, Tiruvannamalai , India (Home)

ABOUT

OBJECTIVE

Passionate Mechanical Engineering student with a focus on CAD/CAM/CAE design, Robotics, seeking to apply my technical skills in mechanical design, process optimization, and manufacturing. Eager to contribute my skills to innovative projects like robotics, product design, and current technologies.

WORK EXPERIENCE

STELLANTIS INDIA – TIRUVALLUR

INTERN – 21/02/2025 – 30/05/2025

-Working on NVH Testing and validation with a stipend
-Testing and Analysis engineer
-Assisted in conducting Road Noise Test
-Validate the NVH performance of vehicle

KRISHCA STEEL STRAPPING SOLUTIONS LIMITED – CHENNAI

INTERN – 15/05/2024 – 27/05/2024

- Interned at Krishca Steel Strapping Solutions Limited for two weeks.
- Optimized slitter machine operations to reduce material waste.
- Gained skills in machine operation, quality control, and process optimization.
- Strengthened problem-solving, teamwork, and data analysis abilities.

MEC GROUPS – COIMBATORE

INTERN – 08/07/2023 – 22/07/2023

Gained hands-on experience in Non-Destructive Testing (NDT) techniques.
Worked with advanced testing methods such as Visual Inspection, Ultrasonic Testing (UT) and Magnetic Particle Testing (MT) to ensure product quality and safety.

EDUCATION AND TRAINING

2021 – CURRENT Coimbatore , India

MECHANICAL ENGINEER - (SPECIALIZATION IN ROBOTICS AND AUTOMATION) Anna University Regional Campus Coimbatore

Website aurcc.ac.in | **Field of study** Engineering | **Final grade** 83.6 Percentage (7th SEM) | **Level in EQF** EQF level 6

2019 – 2021 Tiruvannamalai

HIGHER SECONDARY EDUCATION Sri VDS jain Hr Sec School

Final grade 89.5 Percentage | **Level in EQF** EQF level 5

2014 – 2019 Hosur

SECONDARY EDUCATION Bethel Matriculation school zuzuvadi

Final grade 91.8 Percentage | **Level in EQF** EQF level 4

CREATIVE WORKS

Innovative design for Toothbrush

Designed a replaceable-head toothbrush concept in CAD software, emphasizing sustainability and waste reduction.

PROJECTS

Final Year Project - Power Generation From Small Scale Wind Turbine.

-Designed and simulated a Magnus Effect HAWT with NX
-Focused on dynamic CFD Analysis and efficiency of turbine in Ansys Fluent
-Fabrication of Turbine is WIP

CAD-Based Line Follower robot

- Designed optimized mechanical components and layouts, focusing on efficiency and ease of assembly.

Virtual Line Follower robot - COPPELIASIM

Designed and developed a line follower robot simulation using Coppelia Sim. Programmed the robot to follow a predefined path autonomously using sensor feedback with ChatGPT program code.

Lead Designer for Mechanical Symposium – Forsch 23'

- Led a design team to create promotional posters, logos.
- Coordinated with team members to deliver high-quality designs on time for the symposium.

HONOURS AND AWARDS

16/11/2024
Surface Modelling competition (4th position) – TANCAM

Designed a multifunctional combat helmet featuring camera mount, thermal vision, magnetic lock for mask, and internal airbag safety system.

12/07/2023
SIEMENS Solid Edge – Associate & Professional Level Certification – Siemens

05/02/2024
Specialization in CAD and Digital Manufacturing – Coursera-Autodesk

TECHNICAL

Additive manufacturing, Sensors and Actuators, Robotics, Design Concepts, Mechatronics.

SOFT SKILLS

Problem-solving, Communication, Teamwork, Leading, Learning and Listening.

SKILLS

Computer Aided design | Computer Aided manufacturing | Computer Aided engineering | Digital manufacturing and iot | Fusion 360 | basic skills in graphic (canva) | IoT Applications (Arduino, Raspberry Pie)

LANGUAGE SKILLS

Mother tongue(s): **TAMIL**

Other language(s):

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
ENGLISH	B2	B2	A2	A2	B2
HINDI	A1	B1	A2	A1	A2

Levels: A1 and A2: Basic user - B1 and B2: Independent user - C1 and C2: Proficient user