

MADHAV V S

BE in Electronics & Instrumentation

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EDUCATION

2021 – 2025

Bachelors of Engineering

Sri Ramakrishna Engineering College

B.E EIE GPA : 9

2020 – 2021

A.V.B Matriculation Higher Secondary School

HSC PERCENTAGE : 89%

2018 – 2019

A.V.B Matriculation Higher Secondary School

SSLC PERCENTAGE : 89%

EXPERTISE

- Sensors & Transducers
- UI/UX Designing
- Electron Devices

LANGUAGE

- English
- Tamil
- Telugu
- Hindi

EXTRA CURRICULAR

- Member of **Phorartz Club**, actively involved in painting giveaways
- Product Development Intern at **Tectzo Solutions**
- Served as Treasurer at **Einsteins Club**, managing financial records

ABOUT ME

Electronics and Instrumentation Engineering student with a passion for integrating advanced **IoT** systems with **UX design** to enhance user experiences. Currently focused on **Front-end technologies** and committed to leveraging innovative design and technical skills to drive user-centered solutions.

PROJECT EXPERIENCE

Tectzo Solutions

1 Year 4 months

Product Development Intern (UI Designer)

- As an intern at Tectzo Solutions, I played a key role in refining user interfaces for **Accomy**, a hostel management app set to launch at SREC campus.
- Actively contributed to idea pitches and played a key role in **Resilient Renewables** pitch deck that was shortlisted as one of the **Top 50** projects in Tamil Nadu, seamlessly integrating design expertise with strategic thinking.

KSB Valves Pvt. Ltd.

15 Days

Junior Engineer

- I focused on learning and optimizing industrial machinery by monitoring key parameters and processes. I gained hands-on experience with IoT systems and logic controls, enhancing my skills in troubleshooting and system optimization.

TECHNICAL SKILLS

PROGRAMMING LANGUAGES : C, C++, JAVASCRIPT

WEB TECHNOLOGIES : HTML 5, CSS 3, BOOTSTRAP

USER INTERFACE DESIGN : FIGMA, INVISION

SIMULATION TOOLS : MATLAB

VERSION CONTROL : GIT, GIT-HUB

PROJECTS

1. WildDefender: An Innovative Wildlife Detection and Deterrence System for Agriculture

Achievement : Runner-Up and a Cash Prize of Rs.30,000

- Leveraging a Raspberry Pi , our system conducts real-time wildlife identification. When animals are detected, an Ultrasonic Repellent, emitting High-Frequency ultrasonic waves to discourage their presence. This solution offers simple yet effective **wildlife monitoring**, contributing to a safer environment.

2. Eco-Resilience: Dissolution of Alkaline Batteries for Sustainable By-Product Generation

Achievement :Recognized by the Government of Tamil Nadu's nodal agency for innovation

- Developed an innovative process that not only transforms used alkaline batteries into valuable resources but also yields significant by-products, including fuel catalysts, zinc and manganese ore, and reclaimed aluminium. The holistic approach aims to reshape the landscape of **E-Waste Management System**.

3. AquaFlow+: Gypsum Float Precision for Optimal Tank Pressurization

Achievement :Participated in an Idea Hackathon conducted by the Ministry of MSME

- Designed and implemented an innovative float mechanism utilizing gypsum material for continuous pressurization of water tanks. The system includes a **floating device** that not only maintains water pressure within the tank but also automates motor control based on water levels, optimizing the functionality of overhead water tanks.

CERTIFICATIONS

- Excelled in the prestigious Cambridge University-held BEC examination, achieving a commendable B1 level with a score of 145 out of 170.
- Participated in One Day Workshop on “**ADVANCED SOC-DESIGN FOR PPA**” conducted by QUALCOMM at NIT Trichy
- Won the **First Prize** in a project presentation contest showcasing our Streamlined Hospital Management Project in **Techfest,2023**.

I hereby declare that the above-mentioned details are true to the best of my knowledge and belief


(MADHAV VS)