SANJAY M.S

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PROFESSIONAL SUMMARY

Electronics and Communication Engineering student with a strong interest in both hardware and software development. Experienced in working with embedded systems, web technologies, and IoT-based projects. Eager to learn, build practical solutions, and contribute to innovative and impactful work.

EDUCATION

Vellore Institute of Technology, Vellore	Sep 2022 – Present
B.Tech in Electronics and Communication Engineering (Specialization: Biomedical Engineering)	**CGPA: 9.48 Govt.**
Higher Secondary School, Sundapalayam, Coimbatore	Jun 2021 – May 2022
Higher Secondary Certificate (HSC)	**Percentage: 95.16%**
Sethu Vidhalaya Matric Hr. Sec. School, Vedapatti, Coimbatore	Jun 2019 – Apr 2020
Secondary School Leaving Certificate (SSLC)	**Percentage: 89.6%**

SKILLS

Programming	Java, Embedded C, Verilog, ALP, My SQL, OOPS, HTML CSS and JavaScript
Technical Domains	Digital electronics, VLSI design, Embedded Systems, Cloud Computing, DSA(basics)
Languages	Tamil, English, Japanese(basics)

PROJECTS

Smart Car Parking System — Apr 2024

Developed a smart parking system using 8051 microcontroller and Assembly Language. Integrated IR sensors and motor control for automatic gate operation and slot monitoring. Simulated in Keil and Proteus. [Link]

Flood Level Detection System — Dec 2024

Created an IoT-based flood monitoring system using ESP32, ultrasonic sensors, and Firebase. Sent real-time alerts to a Flutter app based on severity levels. [Link]

Emergency Chat Box — Mar 2025

Built an offline messaging system using ESP8266 and WebSockets. Enabled real-time communication without internet access, ideal for disaster scenarios. [Link]

ML-Based Foot Arch Detection — Apr 2025

Developed the frontend using React for a web-based tool that classifies foot arch types. Integrated with Python Flask backend hosting CNN and SVM models to analyze footprint images and generate pressure maps. [Link]

Personal Portfolio Website — Jul 2025

Designed a portfolio using HTML, CSS, and JavaScript to showcase my skills, projects, and certifications. Demonstrated strong web development fundamentals through interactive layout and custom styling. [Link]

CERTIFICATIONS

AWS Cloud Practitioner [Link]	SQL (HackerRank) [Link]	C Programming [Link]
ESP32 Workshop [Link]		

ACHIEVEMENTS

- Awarded a 100% tuition fee scholarship under the prestigious **STARS Scheme** at VIT Vellore for the academic period 2022–2026.

- Secured **Top Departmental Ranks** during the current academic year at VIT.

- Solved 250+ problems on **LeetCode**, covering topics in Data Structures, Algorithms, and SQL.

- Achieved **District 1st** rank in Higher Secondary Education among rural government schools.