

N. Sai Mahesh

+91-8142301801 | saimahesh8142@gmail.com | [in](#) Nandineni Sai Mahesh | [🏠](#) Coimbatore, India

SUMMARY

Passionate student in Electronics and Communication Engineering at the Amrita School of Engineering. Experienced in Internet of Things, Sensor Interfacing and Mobile App Design. Hands-on experience in Arduino, Raspberry Pi, ESP32, and STM32. Skilled in C programming, HDL & Digital Electronics. Proficient in MS Excel with Matlab. Enthusiastic for contributing to innovative projects in areas such as embedded systems, IoT, and hard-ware design.

EDUCATION

2022 - 2026	Bachelor's Degree(ECE) at Amrita Vishwa Vidya Peetham	(CGPA: 7.67*/10)
2022	Class 12th A.P State Board at Sri Chaitanya Jr College	(Percentage: 87)
2020	Class 10th A.P State Board at Sri Chaitanya Techno School	(Grade: 10/10)

PROJECTS

IoT based Wardrobe Security [🔗](#) (June 2024 - Present)

- * Developed an idea to protect valuables at a location utilizing IoT.
- * Used sensors ESP32microcontroller, Accelerometersensor (MPU6050), IRsensor, Ultrasonicsensor (HC-SR04), Photoresistor
- * Alert the user to react spontaneously without the knowledge of an unauthorized person through a mobile app using blynk cloud services.

Smart Food Spoilage Detection System [🔗](#) (Jan 2024 - April 2024)

- * Developed an IoT-based system to detect early food spoilage using sensor data analysis.
- * Integrated gas and temperature sensors with an ESP32 to monitor environmental parameters.
- * Represented the final result using Matlab.

Plant Controller Circuit Design [🔗](#) (Oct 2023 - Nov 2023)

- * Designed and implemented a digital circuit to monitor a plant controller using 3-bit sensor inputs for temperature and pressure.
- * Developed a logic-based system to determine normal and faulty conditions, displaying results on a seven-segment display and triggering a buzzer for faulty outputs.

CERTIFICATION

- Digital Design with Verilog [🔗](#) (Jan 2024 - April 2024)

SKILLS

Tools & IDE's	MS Excel, Arduino IDE, Keil µvision, Proteus, LT Spice, Jupyter
Soft Skills	Teamwork, Adaptability, Flexibility, Networking
Languages	C, Embedded C, Python
Hardware Description Language	Verilog, VHDL

PERSONAL DETAILS

Membership	Tech Member(Embedded), IETE Club, Amrita University.
Language Proficiency	English, Telugu, Tamil, Hindi
Hobbies	Working with Hardware models, Cricket, Badminton, Basketball