

NITHIMARAN S S

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Professional Summary

Enthusiastic and innovative ECE student skilled in embedded systems, AI, and VLSI design. Adept at developing real-time applications and interested in building impactful, smart technology solutions for everyday life.

Skills

- STM32 microcontroller (STM32CubeIDE)
- Edge AI applications
- PCB Design (EAGLE)
- Proteus with C programming
- Verilog coding (ModelSim)
- MATLAB
- 3D design using Fusion 360
- Python
- Java
- C
- HTML, CSS, JavaScript

Education

B.E. Electronics and Communication Engineering

Kongu Engineering College, Erode

2023 – 2027 | CGPA: 8.09/10

Projects

Alert System for Car Accidents

Developed a system to send real-time emergency messages to hospitals, police, and the car owner's emergency contacts in case of accidents.

Smart Traffic Management System

Used YOLO to detect traffic density and dynamically adjust signal timings. Developed a website with user and admin panels for monitoring and control.

Future Plan: Speech-to-Animation Smartwatch

Working on converting voice to animated sign language videos to help differently-abled users, aiming to integrate this into a smartwatch product.

Achievements / Extracurriculars

Won 2nd Prize in Paper Presentation on "E-Vehicle and Battery" at Tech Thirst I, Kongu Engineering College, on 27/09/2025.