KAVISELVAN TAMIL

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PROFILE SUMMARY

I am an enthusiastic Electronics and Communication Engineering (ECE) student with a strong focus on embedded systems development and IoT solutions. My expertise includes embedded programming, device integration. I am proficient in Python and C programming languages, with hands-on experience in building robust IoT systems and working on various embedded platforms.

EDUCATION

2021 - 2025
GOVERNMENT COLLEGE OF ENGINEERING SRIRANGAM
Anna University

- Bachelor of Engineering ECE
- CGPA: 7.1 (UPTO 5TH SEM)

COURSES

- Digital Electronics
- Embedded System Design
- Embedded Software Development
- Internet of Things
- Real Time Operating System
- Circuit Design

SKILL SET

Programming Language
- C
- Embedded C
- Python

Embedded Systems
- 8051
- Arduino
- Raspberry Pi
- ESP32
- STM32

Tools & Platforms
- FreeRTOS
- MQTT
- Git
- Node-RED
- Firebase
- Blynk

PCB & Circuit Design
- KiCad
- Proteus

WORK EXPERIENCE

Bharat Sanchar Nigam Limited (BSNL) - Trichy **JUl 2024- AUG2024**

Intern - Networking and Exchange Maintenance

- Acquired hands-on experience with telecom network models, including mobile, and broadband networks.
- Explored network architectures, protocols, and components, focusing on GSM, CDMA, and LTE technologies.
- Studied call flow processes, handover mechanisms, and performance metrics.
- Gained foundational knowledge in fiber optics technology.

PROJECTS

Environmental Monitoring | Embedded System, IoT, MQTT, Monitoring Website [Link]

- Transfer the realtime humidity and temperature data of park environment.

Smart Home | Embedded system, Arduino, Embedded C, Sensors & Actuators [Link]

- Monitor and control the various parameters in Home Environment using Arduino.

Smart Door Lock | Embedded system, ATMEGA328P, Embedded C, PCB, 3D model [Link]

- Final product of passkey based smart lock system

Stepper Motor Control Using MQTT | ESP32 [Link]

- Precise stepper motor control from 0 to 360 degrees via MQTT and a web-based control interface.