



PROFILE

Accomplished and performance-driven Electronics and Communication Engineer. Embedded systems professional with experience in developing and testing firmware for microcontrollers and learned Electronics concepts with Practical Experience. Graduate in 2026

EDUCATION

IFET College Of Engineering Villupuram

B.E: Electronics and
Communication
Engineering

SKILLS

- C
- Python
- HTML, CSS, BOOTSTRAP
- Troubleshooting
[Hardware]
- Project Management

CERTIFICATIONS

- Diploma certification in 'Electronics Mastery' by. Chitti IMES.
- GUVI's Certified Python developer
- Government of Tamil Nadu Certified Junior Grade Typewriting English
- Skill India's Certified AI for India 2.0

PROJECTS

Real-Time Energy Consumption Tracking with ESP32 and Blynk

Description: Developed a smart energy monitoring system to track and display real-time household energy consumption. Integrated an ESP32 microcontroller with a current sensor to measure real-time current and voltage, and calculate power usage. Utilized the Blynk IoT platform for data visualization, enabling real-time monitoring on a smartphone.

Responsibilities:

- Designed and implemented circuitry for safe measurement of household current using the SCT-013 sensor.
- Programmed the ESP32 to calculate power consumption based on sensor readings and transmit data to the Blynk platform.
- Configured Blynk for real-time data visualization and notifications based on predefined power usage thresholds.

Technologies:

ESP32, Blynk, SCT-013 Current Sensor, Arduino IDE, C++, IoT

Key Skills: IoT Development, Embedded Systems, Real-Time Data Monitoring, Circuit Design, Mobile Application Integration