Vigneshvaran T

7092517208 / Vignesh.mailbox5@gmail.com / www.linkedin.com/in/vignesh-varan-t-4563b2299

Executive Summary

Enthusiastic 3rd-year ECE student specializing in IoT and embedded systems. Strong knowledge in programming, sensor integration, microcontroller development, and real-time data handling. Passionate about developing innovative IoT and automation solutions through industry-oriented projects.

Technical Skills

Languages: Python, C, Java, HTML, CSS
Embedded/IoT Frameworks: Arduino, ESP32
Databases: MySQL, NoSQL
Visualization: Blynk, ThingSpeak, Fritzing
Web Development: HTML, CSS, JavaScript

Projects

Cattle Health Monitoring System

- Designed and developed an IoT-enabled cattle health monitoring system using multiple sensors to detect fever, heat stress, mastitis and ammonia levels in real time.

- Implemented an intelligent disease prediction and alert system that enables early detection, reduces livestock loss and promotes smart dairy farm automation through a low-cost, farmer-friendly prototype.

IoT-Based Landslide Prediction System

- Designed and developed an IoT-based Landslide Prediction System integrating soil moisture, rainfall, vibration and MEMS tilt sensors to continuously monitor slope stability in real time.

- Implemented threshold-based prediction logic on Arduino/ESP32 with GSM alerts,buzzer and LED indicators, powered by a solar-backed system, providing up to 2 hours of early warning to enhance community safety in hilly regions.

Education

Sethu Institute of Technology, Virudhunagar

B.E. in Electronics and Communication Engineering - CGPA: 7.7
Government Higher Secondary School, Thoothukudi
Higher Secondary Education – 67.17%

Certificates

- Web Development Fundamentals – IBM
- Java Development -Infosys
- Front End Development(CSS)- Great Learning
- TCS ION Career Edge – TCS
- Introduction to Internet of Things – NPTEL
- Python Foundation – Infosys

Areas of Interest: IoT Automation, Smart Agriculture, Embedded Systems

NoviTech R&D Pvt. Ltd. — Online Internship (1 Month)
Completed a one-month internship in **IoT and Web Development**, gaining hands-on experience in microcontroller programming, sensor integration, and real-time data visualization.