

# KALWA PHANINDRA RADHAN

Hyderabad | 9133753212 | [phanikalwa@gmail.com](mailto:phanikalwa@gmail.com)

GitHub: <https://github.com/Kalwaphani> | LinkedIn: <https://www.linkedin.com/in/kalwa-phanindra-radhan/>

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## **EDUCATION:**

### **Bachelor of Technology in Electronics and Communication:**

St. Peter's Engineering College, JNTUH – 2020-2023

### **Diploma in Electronics and Communication:**

Govt. Polytechnic, Siddipet – 2016-2019

SSC – Sri Vani High School, Siddipet – 2015-2016

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## **PROFESSIONAL TRAINING:**

Post graduate diploma in Embedded Systems design and development at Indian Institute of Embedded Systems - IIES, Bangalore.

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## **TECHNICAL SKILLS:**

**Languages:** C, Embedded C, Python

**Microcontrollers:** STM32, 8051

**Protocols:** I2C, UART, SPI, CAN

**Tools:** Keil, STM32CubeIDE, PlatformIO, Arduino IDE

**OS:** Linux, Windows

**Concepts:** Data Structures & Algorithms, Automotive Systems, RTOS(free RTOS)

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## **PROJECTS:**

### **Smart Weather Monitor (STM32)**

- Developed a Smart Weather Monitoring System using STM32F401RBT6 with bare-metal programming, utilizing UART, SPI, and I2C protocols.
- Integrated LM35 temperature sensor, DS1307 RTC, AT24C08 EEPROM, and a 16x2 LCD to measure, timestamp, store, and display temperature data.
- Implemented periodic logging every 10 seconds and uploaded data to a web server for real-time remote monitoring.

### **Population Survey System using C programming**

- Created a console-based application for managing and analyzing population survey data.
- Implemented data validation, statistical calculations, and location-wise demographic insights.

### **Smart Courier Box using IOT**

- Designed a parcel delivery box with IR sensor and servo motor for secure, unattended deliveries.
  - Used ESP32-CAM and Blynk app to enable real-time video monitoring and notification alerts.
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## **INTERNSHIPS:**

**Embedded Intern** – Eurth Techtronics – worked on ESP32 and designing and developing embedded solutions, integrating sensors like MPU-6050 and Programmed microcontrollers (Arduino IDE and Platform IO) using C.

**Python Intern** – Path Creators – Completed a one-month internship on Python fundamentals.

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**PUBLICATIONS:** Smart Courier Box using IoT, *JuniKhyat* (UGC Care), ISSN: 2278-4632, 2023

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