

# RANJITH K

📍 Coimbatore, Tamil Nadu | 📩 k i t 2 7 . e c e 3 1 0 @ g m a i l . c o m | 📞 8015542957 | 💬 RANJITH. K | 🌐 KRanjith2005

## EDUCATION

### Kalaignarkarunanidhi Institute of Technology - Coimbatore , India

2024 - 2027

B.E – Electronics and Communication Engineering, Pre-Final year

### CIT Sandwich Polytechnic College – Coimbatore, India

2021 - 2024

Complitig the Diploma – Electronics and Communication Engineering 72%

**Coursework:** Microprocessors & Microcontrollers,Linear Integrated Circuit,Communication System

Analog&Digital Electronics,IOT,VLSI.

## EXPERIENCE

### ELECTRONICS PRODUCTION | ASPIRE TECHNOLOGIES – Coimbatore, India (*Offline*)

May 2025

- Learned the fundamentals of electronics manufacturing, including component assembly, soldering techniques, and quality control processes..
- Gained an understanding of production workflows, safety standards, and testing methods used in large-scale electronic production..

### Embedded Systems Intern|LITZTech- Coimbatore, India (*Offline*)

Dec 2024

- Gained hands-on experience in hardware concepts, including sensor integration, microcontroller basics, and hardware interfacing.
- Worked with Arduino boards to understand real-time data flow, actuator control, and basic hardware operations.
- Learned essential hardware debugging techniques such as checking connections, analysing circuit behaviour, and using serial communication tools

### Vasantha Advanced Systems – Coimbatore, India (*Offline*)

May 2023

- Learned the fundamentals of electronics manufacturing, including component assembly, soldering techniques, and quality control processes..
- Gained an understanding of production workflows, safety standards, and testing methods used in large-scale electronic production..

## PROJECTS

### Multi-Hazard Monitoring System (Mini / Academic Project)

Sep 2025

- Developed a system to monitor multiple hazards such as fire, gas leakage, temperature, and vibrations.
- Integrated sensors with a microcontroller for real-time data monitoring.
- Implemented alert mechanisms using buzzer/LED for emergency situations.

### Smart Farming using Pest Detection | Python, Embedded C. Data Ecosystems

August 2025

- Built an AI solution leveraging Python and TensorFlow/Keras for image classification,
- Successfully implemented early pest and disease detection in crops using trained CNN models.
- Supported the vision of "data ecosystems" in agriculture to optimize resources and minimize crop loss.

### Greenhouse Monitoring System using IoT | Arduino UNO, ATmega328P, Sensors, Embedded C.

April 2024

- Designed an automated system using the Arduino UNO (ATmega328P) microcontroller.
- Implemented robust control logic and used I2C/SPI communication to interface with environmental sensors.
- Created a system to automatically maintain optimal conditions (temperature, humidity, moisture) for plant growth.

## TECHNICAL SKILLS

- PCB Design
- Communication System
- Analog&Digital Electronics
- Microcontroller
- IOT
- VLSI

## SKILLS

- Time Management
- Smart Work
- Demonstrates strong commitment to completing assigned tasks accurately and on time.
- Quickly adapts to new environments

## CERTIFICATIONS & COURSES

Juniper-Migrating from the Cisco CCNA to the JNCIA-junos	2025
Coursera – IoT Communication	2025
MathWorks – MATLAB Onramp	2025
Infosys Springboard - IoT Edge Computing and IoT Analytics	2025
Infosys Springboard - Database Management System Part 1	2025
Infosys Springboard - Database Management System Part 2	2025
RLT Design & Verification (Work Shop)	2025
Internship 15 Days ( Aspire Technologies )	2025
Internship 7 Days ( LITZ Tech )	2024
Internship 15 Days ( Vasantha Advanced Systems )	2023