

# RANJITH K

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## EDUCATION

<b>Kalaigarkarananidhi Institute of Technology - Coimbatore , India</b> B.E – Electronics and Communication Engineering, Pre-Final year	<b>2024 – 2027</b>
<b>CIT Sandwich Polytechnic College – Coimbatore, India</b> Completing the Diploma – Electronics and Communication Engineering <b>72%</b> <b>Coursework:</b> Microprocessors & Microcontrollers, Linear Integrated Circuit, Communication System Analog & Digital Electronics, IOT, VLSI.	<b>2021 - 2024</b>

## EXPERIENCE

<b>ELECTRONICS PRODUCTION   ASPIRE TECHNOLOGIES – Coimbatore, India (Offline)</b> <ul style="list-style-type: none"><li>Learned the fundamentals of electronics manufacturing, including component assembly, soldering techniques, and quality control processes..</li><li>Gained an understanding of production workflows, safety standards, and testing methods used in large-scale electronic production...</li></ul>	<b>May 2025</b>
<b>Embedded Systems Intern   LITZ Tech – Coimbatore, India (Offline)</b> <ul style="list-style-type: none"><li>Gained hands-on experience in hardware concepts, including sensor integration, microcontroller basics, and hardware interfacing.</li><li>Worked with Arduino boards to understand real-time data flow, actuator control, and basic hardware operations.</li><li>Learned essential hardware debugging techniques such as checking connections, analysing circuit behaviour, and using serial communication tools</li></ul>	<b>Dec 2024</b>
<b>Vasantha Advanced Systems – Coimbatore, India (Offline)</b> <ul style="list-style-type: none"><li>Learned the fundamentals of electronics manufacturing, including component assembly, soldering techniques, and quality control processes..</li><li>Gained an understanding of production workflows, safety standards, and testing methods used in large-scale electronic production...</li></ul>	<b>May 2023</b>

## PROJECTS

<b>Multi-Hazard Monitoring System (Mini / Academic Project)</b> <ul style="list-style-type: none"><li>Developed a system to monitor multiple hazards such as fire, gas leakage, temperature, and vibrations.</li><li>Integrated sensors with a microcontroller for real-time data monitoring.</li><li>Implemented alert mechanisms using buzzer/LED for emergency situations.</li></ul>	<b>Sep 2025</b>
<b>Smart Farming using Pest Detection   Python, Embedded C. Data Ecosystems</b> <ul style="list-style-type: none"><li>Built an AI solution leveraging Python and TensorFlow/Keras for image classification,</li><li>Successfully implemented early pest and disease detection in crops using trained CNN models.</li><li>Supported the vision of "data ecosystems" in agriculture to optimize resources and minimize crop loss.</li></ul>	<b>August 2025</b>
<b>Greenhouse Monitoring System using IoT   Arduino UNO, ATmega328P, Sensors, Embedded C.</b> <ul style="list-style-type: none"><li>Designed an automated system using the Arduino UNO (ATmega328P) microcontroller.</li><li>Implemented robust control logic and used I2C/SPI communication to interface with environmental sensors.</li><li>Created a system to automatically maintain optimal conditions (temperature, humidity, moisture) for plant growth.</li></ul>	<b>April 2024</b>

## TECHNICAL SKILLS

<ul style="list-style-type: none"><li>PCB Design</li><li>Communication System</li><li>Analog &amp; Digital Electronics</li><li>Microcontroller</li><li>IOT</li><li>VLSI</li></ul>
<b>SKILLS</b> <ul style="list-style-type: none"><li>Time Management</li><li>Smart Work</li><li>Demonstrates strong commitment to completing assigned tasks accurately and on time.</li><li>Quickly adapts to new environments</li></ul>

## 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