

Rayhan Hameed

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Education:

Currently pursuing two degrees at

- Chennai Institute of Technology **CIT– B.E. ECE (CGPA – 9.486)**
 - **IIT Madras – B.S. in Data Science**
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Internship Experience:

1. Working currently as a part-time intern at Lumora Media Company as a content writer and script editor.
 2. Summer Internship at Indian Meteorological Department, Doppler Weather Radar, Chennai
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Projects:

1. RFID-Based Traffic Management System

Embedded Systems, IoT | Tools: Arduino

- Designed a smart traffic control system that detects emergency vehicles using RFID and dynamically alters traffic signals to reduce ambulance delays.
- Integrated microcontroller-based automation to prioritize route clearance in real-time scenarios.

2. Dual-Axis Antenna System for Doppler Weather Radar (Ongoing)

Mechanical & Electronics Integration | Tools: Arduino/ESP32, Fusion 360, Servo systems, GUI

- Created a miniature working model of a weather radar antenna with azimuth-elevation movement using servo motors and slip rings.
- Aimed at creating a miniature real-time antenna positioning system.

3. LED Blinker using Two-Transistor Astable Circuit

Analog Circuit Design, PCB Design | Tools: EasyEDA

- Built and simulated a self-oscillating multivibrator circuit using an RC network and two transistors to blink LEDs.
- Demonstrated waveform accuracy and timing control via resistor-capacitor tuning.

4. Traffic Light Controller using IC-555 Timer

Sequential Circuit Logic, PCB Design | Tools: EasyEDA

- Implemented a timer-controlled LED sequence simulating traffic lights (Red → Green → Blue).
 - Designed an editable schematic and 3D PCB layout with scalability for logic gate integration.
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Certifications:

- **Iterative Market Research** from **LinkedIn**
 - **Cisco** Certifications: -
 - 1) Introduction to Modern **AI**
 - 2) Introduction to **IOT** and Digital Transformation
 - 3) Introduction to **Data Science**,
 - 4) Introduction to **Cybersecurity**,
 - 5) **AI fundamentals** with IBM
 - Levels Teen A1 & A2 in **French** Language by **Alliance Francaise**
 - 7Hrs Introduction to **Japanese** by FLTCC (Experience Japan)
 - IIT Madras Team Paradox **Content Editor**
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Skills and Achievements:

- Centum Scorer in mathematics in class 10 & 12.
 - Hosted few formal events.
 - Member of clubs like Toastmasters.
 - Published articles in Medium & other platforms
 - Knowledge in programming languages like C and C++ and about designing platforms like Canva, etc •
 - Won Bronze Medal in SpellBee International.
 - Circuit designing, problem analysis and solving
 - Participated at National Level Hackathons.
 - Market Research & Project management
 - Passion for storytelling
 - Good Orator, Public Speaker & Content Writer.
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