

# Kinshuk Pandala

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## Education

<b>VIT Bhopal University</b> B.Tech in Electronics and Communication Engineering, 7.83 CGPA <i>Specialization in Artificial Intelligence and Cybernetics</i>	Madhya Pradesh, India <i>Sept 2023 – Present</i>
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## Experience

<b>Intern – Bharat Electronics Limited (BEL)</b> <i>Strategic Communication SBU</i>	<i>May 2025 – June 2025</i> Bengaluru, India
<ul style="list-style-type: none"><li>Worked across procurement, hardware testing, and verification stages of secure communication systems within a PSU defense environment.</li><li>Executed hardware-level PCB testing and validation for encryption-compliant communication boards, following defined test procedures (project details confidential).</li><li>Produced test documentation and supported simulation-based analysis to verify system reliability and compliance.</li></ul>	

## Projects

<b>QUENCH – Smart Water Vending Machine</b> <i>IoT-enabled smart hydration system with wireless payment and real-time monitoring</i>	<i>Jan 2025 – Apr 2025</i>
<ul style="list-style-type: none"><li>Architected and implemented an end-to-end IoT system integrating embedded firmware, communication protocols, and a backend dashboard.</li><li>Developed ESP32 firmware for sensor interfacing, actuator control, and UART-based device communication.</li><li>Designed a Flask-based monitoring interface and integrated MQTT for reliable device–server data exchange.</li></ul>	
<b>Wi-Fi Controlled Mobile Robot (ESP8266)</b> <i>IoT-based mobile robot enabling real-time wireless control over a local network</i>	<i>Sep 2024 – Dec 2024</i>
<ul style="list-style-type: none"><li>Designed and built a mobile robot using ESP8266 (NodeMCU) and L298 motor driver for bidirectional motor control.</li><li>Programmed firmware for Wi-Fi communication, configuring the ESP8266 in AP mode for direct device connectivity.</li><li>Developed a web-based control interface to issue HTTP commands for real-time navigation.</li></ul>	

## Skills

<b>Embedded &amp; Hardware:</b> ESP32, ESP8266 (NodeMCU), Raspberry Pi, Arduino, Sensors & Actuators, UART, MQTT
<b>Programming:</b> C, Embedded C, Python
<b>Systems &amp; Tools:</b> PCB Testing, Hardware Validation, Arduino IDE, LTspice, MATLAB

**Interfaces & Dashboards:** Flask, JavaScript, HTML, CSS

## Responsibilities

<ul style="list-style-type: none"><li><b>Financial Representative, Fusion Club (Non-Technical)</b> – Managed budgeting, expense tracking, and financial coordination for club activities and events.</li><li><b>Co-Lead, Content Team, Bit by Bit Club (Technical)</b> – Coordinated content planning for technical events, workshops, and outreach initiatives.</li></ul>
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## **Additional Information**

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Languages: English, Hindi, Telugu, Kannada