

DHARMENDRA KUMAR

Location: Gurugram, India

Role: IoT Engineer / Technical Support Engineer

Experience: 2+ Years

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PROFILE SUMMARY

A motivated and detail-oriented Technical Support & IoT Engineer with over 2.5 years of experience in IT

support, embedded systems, and real-time monitoring solutions. Skilled in troubleshooting complex

technical issues, configuring networks and servers, and implementing IoT-based monitoring systems

using Raspberry Pi, Node-RED, InfluxDB, MQTT, and Grafana. Strong background in Outlook/mail

configuration, switch/Wi-Fi setup, and sensor integration.

KEY SKILLS

IoT & Embedded Systems

- IoT Development: ESP8266, ESP32, Raspberry Pi, Arduino
- Sensor Integration: Current, DHT11, Vibration, Analog 4–20mA / 0–10V
- Modbus RTU/TCP, RS485/RS232, LoRa, Zigbee, MQTT
- Waveshare Modules, Device Interface Testing

Networking & Protocols

- TCP/IP, HTTP/HTTPS
- Switch Configuration (Basic L2/L3)
- Router & Wi-Fi Configuration
- LAN/WAN Setup & Troubleshooting
- Cable Crimping, Wiring, Network Diagnostics

IT Support / Technical Support

- Outlook Configuration, Email Setup (IMAP/POP/SMTP)
- Wi-Fi & Network Configuration
- Server Support (Windows/Linux Basic)
- Desktop Support, Printer/Scanner Troubleshooting
- OS Installation (Windows/Linux) & Driver Management
- Remote Support (AnyDesk, TeamViewer)
- Ticketing & Incident Resolution

Software Tools & Platforms

- Node-RED, InfluxDB, Grafana, ThingsBoard
- Raspberry Pi OS, Linux Commands
- Real-time Dashboards & Alerts Programming
- C, C++, Python
- Automation Scripts for IoT & Data Handling

WORK EXPERIENCE

IoT Engineer – ThirdEye AI Pvt. Ltd., Gurugram

May 2024 – Present

- Developed IoT monitoring systems using Raspberry Pi, Node-RED, MQTT, InfluxDB.
- Integrated industrial sensors and Modbus communication.
- Built Grafana dashboards for energy, machine & sensor monitoring.
- Configured LoRa/LoRaWAN, Zigbee, ESP32 devices for field use.
- Provided client support, wiring & hardware configuration.

Technical Support Engineer – JBM Group, Gurugram.

May 2023 – May 2024, pune

- Provided Outlook/mail, Wi-Fi, system installation, printer troubleshooting.
- Supported Andon, Machine Monitoring & Energy Monitoring systems.
- Reduced downtime through diagnostics & ticket resolution.
- Assisted in LAN/WAN setup, switch configuration, server support.

PROJECTS

1. 4M Machine Monitoring System (ESP-based)

Duration: 6 Months

Technologies: ESP8266/ESP32, C Programming, MQTT, Node-RED, InfluxDB

- Developed C-based firmware for ESP modules to detect and report 4 types of machine downtime in real time.
- Implemented MQTT-based data transmission to the monitoring server.
- Enabled real-time visualization using Grafana dashboards.
- Improved downtime visibility and reduced manual dependency on operators.

2. Energy Monitoring System (EMS)

Duration: 12 Months

Technologies: Modbus RTU/TCP, Node-RED, InfluxDB, Grafana, Raspberry Pi

- Implemented EMS for monitoring HT/LT panels, DG, solar, and machine-level consumption.
- Captured real-time kWh, power, voltage, and current from energy meters.
- Built a complete pipeline: Modbus → Node-RED → InfluxDB → Grafana.
- Created alerts for overconsumption, peak load, and abnormal power usage.

3. Machine Monitoring System

Technologies: Sensors, Raspberry Pi, Node-RED, Python

- Captured machine run/stop, cycle time, downtime reasons, and performance metrics.
- Integrated with production counters and shift-wise dashboards.

- Enabled operator-wise and machine-wise efficiency tracking.

4. Sensor Monitoring System

Technologies: DHT11, Vibration Sensors, Current Sensors, Analog 4–20mA / 0–10V

- Developed a live monitoring system for temperature, vibration, and current sensors.
- Deployed threshold-based alarms and historical data logging.
- Used MQTT + InfluxDB + Grafana for visual dashboards.

5. ANDON System

Technologies: Raspberry Pi, ESP32, Node-RED, MQTT

- Designed an ANDON alert system displaying machine status using LEDs, sounders, and dashboards.
- Implemented operator call, downtime, and maintenance request alerts.
- Reduced communication delays on the shop floor.

6. RFID-based Attendance & Tracking System

Technologies: RFID Reader, ESP32, Python, MQTT

- Built an RFID-based tracking system for operator attendance and machine access.
- Automated attendance logging and real-time status updates on dashboards.

EDUCATION

- B.Tech (IT), JNTU Chittoor – 2023 (75%)
- 12th – Bihar Board – 2019 (60–64.9%)
- 10th – Bihar Board – 2017 (55–58.9%)