

KASIMKOTA KUMAR

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SUMMARY

IoT and Embedded Developer with expertise in industrial automation and a solid foundation in Electronics and Communication Engineering. Skilled in designing custom IoT solutions, integrating sensors and actuators, and creating PCBs using EasyEDA. Proficient in soldering, microcontroller networking, and communication protocols, delivering efficient, innovative solutions and collaborating effectively on impactful projects.

EDUCATION

B.Tech in Electronics and Communication Engineering	2024
Rajiv Gandhi University of Knowledge Technologies, Nuzvid, AP	7.4 CGPA

PUC, Pre-University Course	2020
Rajiv Gandhi University of Knowledge Technologies, Nuzvid, AP	7.69 CGPA

SSC, Secondary School Certificate	2018
Zilla Parishad High School, AP	9.8 GPA

PROFESSIONAL EXPERIENCE

Sense Semiconductors and IT Solutions Pvt Ltd, AP : Embedded IoT Engineer	Sep 2023 – Dec 2025
- Executed industrial Embedded IoT projects, including Industrial Energy Meter and Home Automation systems, enhancing functionality based on client needs. - Developed solutions with industrial sensors and actuators, designing custom PCBs for efficiency and client-specific requirements. - Worked on real-time automation involving water level monitoring, motor pump control, fault detection systems, and power consumption analytics. - Applied knowledge of communication protocols, data logging, and embedded programming to improve system reliability in industrial use cases.	

TECHNICAL SKILLS

Programming Languages: C, Arduino

Technologies: IoT, Microcontrollers (ESP32, Arduino), Smart Energy Meter, PCB Design, Circuit Design, EasyEDA, Sensor Integration, Embedded Systems

Concepts: Automation Control, Firmware Development, Real-Time Data Acquisition, Communication Protocols (UART, SPI, I2C, UDP), Power Management

Soft Skills: Problem Solving, Active Listening, Project Management, Client Requirement Analysis, Collaboration

PROJECTS

Industrial Energy Meter Automation

Automated data collection and cloud integration for real-time energy analytics.

- Developed data collection from energy meters by device ID, transmitting data to the cloud for monitoring.
- Integrated EEPROM for storing SSID, password, meter /type, and IP configurations.
- Hardware Used: ESP32 microcontroller, Industrial Energy Meter (Modbus-based), EEPROM (AT24C256), RS485 to TTL converter, custom PCB for power and data interface.

Water Head Tank System

Adaptable water tank with cloud-connected monitoring and control.

- Implemented features like overflow detection, motor control, and water quality monitoring.
- Adaptable water tank with cloud-connected monitoring and control.
- Hardware Used: ESP32, Ultrasonic sensor (HC-SR04) for water level, pH sensor for water quality, relay module for motor control, custom PCB for sensor and motor interface.

Home Automation System

Real-time control with data transfer over cloud and local networks.

- Focused on hardware design, industrial testing, and integrated smart plug for device control.
- Hardware Used: ESP32, Relays, Current sensors (ACS712), Optocouplers, Blynk platform, Wi-Fi router for local control, custom PCB with AC/DC power regulation.

CERTIFICATION

Embedded Systems and IoT Course

NIELIT Kerala

- Gained hands-on expertise in cutting-edge technologies through immersive offline learning.
- Self-studied embedded applications in real-time automation domains including pump control systems, diagnostic interfacing, and smart tank monitoring.

CAD Modeling Course

NIELIT Kerala

- Learned the fundamentals of CAD design for industrial and engineering applications.