

KOTHALI MANOHAR

EMBEDDED SYSTEMS ENGINEER

Andhra Pradesh, Visakhapatnam

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SUMMARY

Innovative Embedded Systems Engineer with expertise in IoT, Embedded C, and real-time microcontroller design, passionate about creating smart and efficient automation solutions.

TECHNICAL SKILLS

Embedded C - Advanced	Embedded Linux - Basic	proteus - Intermediate
Python - Intermediate	Arduino IDE - Intermediate	Keil - Intermediate
IoT Technologies - Advanced	PCB designing - Beginner	

PROFESSIONAL EXPERIENCE

Blue Planet InfoSolutions

Jun 2025 - Present

Remote 6 Months

- Gained experience in electronic circuit simulations using Proteus to analyze circuit behavior and validate designs before hardware implementation.
- Designed, developed, and tested a QR Pill Box project with ESP32, including PCB design, hardware–software integration, and prototype implementation

EDUCATION

Bachelor of Design in Electronics And Communication Engineering

2023- 2027

Sagi Rama Krishnam Raju Engineering Collage

- CGPA - 8.8

PROJECTS

- **IoT-Based Smart Water Bottle** – Designed an IoT-enabled bottle with sensors for water intake and temperature tracking; developed a companion mobile app using Flutter for real-time monitoring.
- **Smart Blind Stick** – Built an assistive device using Arduino, ultrasonic sensor, vibration motor, and buzzer to detect obstacles and alert visually impaired users.
- **IoT-Assisted Solar Monitoring System** – Developed hardware with ESP32 (4G GSM) and MAX485 to collect inverter data, transmit it to the cloud, and enable web-based analysis.

CERTIFICATES

- **Embedded System Developer Virtual Internship** – EduSkills & APSICHE, supported by Microchip (Apr–Jun 2025)
- **Embedded Systems Summer Internship** – Andhra Pradesh State Skill Development Corporation (Jun–Jul 2025)
- **8 Week course on Embedded System with Arduino** - GeeksforGeeks
- **Embedded Systems Internship** – Pantech.AI (Jun–Sept 2025)