

RABBUNI MERUGUMALA

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Objective

Enthusiastic and innovative Electrical and Electronics Engineering undergraduate with a deep interest in Embedded Systems, IoT, and Software Development. Passionate about building efficient, scalable, and user-friendly web applications and full-stack solutions. Highly interested in software technologies, web designing, and product innovation combining coding, creativity, and electronics to create real-world impact. Building RcubiX Technologies, committed to bridging hardware and software through innovation and teamwork.

Technical Skills

Programming: C, Embedded C, Python, JavaScript, TypeScript, HTML, CSS

Embedded Systems & IoT: Arduino, ESP32, NodeMCU, Raspberry Pi, GSM, LoRa, Blynk, ThingSpeak

Web & Software Development: Full Stack Development, React, Next.js, Flask, REST APIs, Firebase, Web Designing

Tools & Platforms: Vibe Coding, Tinkercad, Proteus, Git, Google Cloud

Soft Skills: Problem-solving, Leadership, Team Collaboration, Innovation, Adaptability

Education

Seshadri Rao Gudlavalleru Engineering College, Gudlavalleru

2024 – Present

B.Tech in Electrical and Electronics Engineering | Current GPA: 7.54

AANM & VVRSR Polytechnic, Gudlavalleru

2021 – 2024

Diploma in Electrical and Electronics Engineering | Percentage: 80.85%

Projects

Apartment Power Alert System

- Real-time monitoring of voltage and current with automated alerts.
- Reduces power wastage using relay-based control logic.
- GitHub: [Link](#)

AgroSense – Smart IoT-Based Irrigation & Monitoring System

- Automates irrigation using real-time soil and weather data.
- GitHub: [Link](#)

Automatic Railway Gate Control System (Dual Gate)

- Enhances railway crossing safety using sensors and dual motor control.
- GitHub: [Link](#)

Automatic Water Level Controller

- Prevents overflow and dry-run using sensor-based tank monitoring.
- GitHub: [Link](#)

Safe Warranty Protection System (Software Project)

- Flask-based API for automated warranty management and data storage.
- Responsive front-end built with HTML, CSS, and JavaScript.
- GitHub: [Link](#)

Wireless Electric Vehicle Charging System (Diploma Major Project)

- Demonstrated safe wireless charging for small electric vehicles.