

Ramu Narlapati

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SUMMARY

Passionate EEE student with hands-on experience in embedded systems, IoT, and real-world hardware projects, driven by a strong interest in applying engineering principles to solve practical problems.

SKILLS

Embedded Systems: ESP32, Arduino, Embedded C, UART, I2C, SPI, MQTT, Sensors & Actuators

IoT: IoT System Design, Firebase RTDB, Cloud Integration, Real-time Monitoring

Languages: C, Embedded C, Assembly, Python, MATLAB & Simulink

AutoCAD Electrical : Panel Designing, Power System Designing.

Core EEE: Power Systems, Power Electronics, Electrical Machines, MATLAB Simulation, PLC and HMI

Additional (AI-assisted): Web Dev (React.js, Next.js), Database (Firebase), App Dev (React Native, Expo)

PROJECTS

Firefighter Safety Device | ESP32, Firebase, React/Vite Dashboard/ Mobile application — [FFSD](#)

▸ A-HACKS Hackathon — 🏆 2nd Prize, Hardware Category

Dual Axis Solar Tracker | LDR, Relay, Gear Motor — [DAST](#)

▸ Pure relay logic, ~40% theoretical solar efficiency gain

EXPERIENCE

Summer Intern — Solar PV system Design

Vijayawada | 4th Semester, B.Tech — May 2026

▸ Learned about Solar PV Systems and Designing

Industrial Trainee — Electrical & Electronics

South Central Railway, Vijayawada | 6th Semester, Diploma — 2024

▸ **scheduled maintenance, heavy repairs, and overhauling** of diesel locomotives , Diesel Electric Multiple Units (DEMUs).

EDUCATION

B.Tech — Electrical & Electronics Engineering | CGPA: 8.0

Andhra Loyola Institute of Engineering & Technology, Vijayawada | 2024 – 2027 (Pursuing)

Diploma — Electrical & Electronics Engineering | 90%

Vikas polytechnic college, Vissannapeta | 2021 – 2024

SSC (Class 10) | 490/600 — 81.6%

ZPHS Marlapalem, AP State Board | 2021

CERTIFICATIONS

| Drone Technology | Building IoT Solutions with Embedded Systems | Introduction to IoT (NPTEL) | Industrial IoT (IIoT) | Learned PLC and HMI from Scratch (Packt) | Electrified Systems Design Engineer (MathWorks) | Google AI Professional (Google) | Solar PV system Design (SkillDzire) | AI Fundamentals (IBM)

ACHIEVEMENTS

| 🏆 **Department 1st** — Firefighter Safety Device Project | 🏆 **2nd Place** — A-HACKS College Hackathon, Hardware Category | 🏆 **1st Place** — IEI Student Chapter Paper Presentation