

VIGNESH NAGA TRINADH KALEPU

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🎯 Career Objective

Aspiring Embedded Systems and IoT Engineer with a strong foundation in electronics and communication, eager to contribute technical skills and innovative thinking to real-world projects. Seeking an internship opportunity at U R Rao Space Centre to gain hands-on experience in advanced space technologies.

🎓 Education

- B. Tech in ECE, Sagi Ramakrishnam Raju Engineering College — CGPA: 8.69 (Till 5th Sem)
- Intermediate (MPC), Aditya Junior College — 93.6% (2022)
- 10th Standard, Aditya School — 92.8% (2020)

🛠️ Technical Skills

- Coding language: - Verilog, MATLAB, C, Python, VHDL
- Tools: - Embedded Systems, IoT, Arduino, ESP32, VLSI (Cadence Frontend & Backend), Wireshark, Vivado

💡 Projects

- Medicine Reminder (Arduino): Buzzer & LED alerts for medication.
- Wireless ESP32 Comm (ESP-NOW): Peer-to-peer comm without Wi-Fi.
- Object Counter (ESP32-CAM): Vision-based detection & count.
- IoT Weather Station: Real-time environmental monitoring.
- GPS Tracker: Live location tracking system.

🌟 Internships

- Embedded Systems and IoT Intern – Blackbucks (8 weeks).
- Worked on embedded & IoT projects using Arduino and ESP32.

📋 Certifications

- NPTEL – Electronic Devices and Circuits
- CISCO – Computer Networks (8 Weeks)
- CRUX – Project Expo Participation

🤝 Soft Skills & Interests

Teamwork, Leadership, Problem-Solving, Critical Thinking, Fast Learning, Adaptability, Attention to Detail, Effective Communication, Time Management

IoT Prototyping, Competitive Coding (Hacker Rank), Reading Tech and Innovation Blogs, Exploring Open-Source Projects, Building DIY Electronics, Self-Help and Productivity Books