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# Sattu Naga Likhith

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## Objective

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Driven ECE graduate with a strong interest in IoT and embedded systems, skilled in C and Python, and eager to apply innovative solutions in real-world projects.

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## Experience

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- **KLR ENGINEERS PVT LTD** July 2025 - Sep 2025  
Quality Control
  - Conducted inspections and testing of raw materials and finished products to ensure compliance with quality standards.
  - Recorded and maintained accurate quality data and audit reports , and operated quality measurement tools in adherence to GMP and ISO procedures.
  - Supported senior quality engineers in defect identification and corrective action recommendations.

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## Education

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- **KKR and KSR Institute of Technology and Sciences** 2025  
B.Tech (Electronics and Communication Engineering)  
CGPA : 7.74
- **Nehru Niketan Jr College** 2021  
Intermediate (MPC)  
Percentage : 70%
- **Nehru Niketan High school** 2019  
SSC  
CGPA : 9.3

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## Skills

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- Programming: C, Embedded C, Python
- Hardware Design: KiCad, PCB Designing, Embedded Systems
- IoT Technologies: Blynk IoT, GSM Modules

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## Projects

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- **Smart Railway Safety and Track Monitoring System (Published in IJSRET)**
  - Developed a railway safety system using ESP32, ultrasonic sensors, and a GSM module for track crack detection, and designed automated signal lights to provide immediate visual warnings to train operators.
  - Integrated the Blynk IoT platform for real-time alerts and used GSM-based GPS messaging for emergency notifications.
- **Traffic Light Management System**
  - Programmed a smart traffic control system using C and IR sensors. The adaptive signal mechanism was built on real-time vehicle density analysis , enhancing urban traffic management.
  - The project resulted in quantifiable improvements: increasing traffic flow efficiency by 20% at major intersections and reducing wait times during peak hours by 15-25%.
- **Water Tank Overflow Alarm**
  - Designed and fabricated the PCB for a water level alarm circuit, which integrated the sensor and buzzer logic to provide a compact and reliable system.
  - Used a simple water level sensor to trigger an audible buzzer warning when water reached the limit, enabling manual control of the pump to prevent overflow.

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## Certifications

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- Embedded System and IoT Design — MAGNI5 and APIR<sup>2</sup>
- Python 101 for Data Science — IBM
- Employability Skills Job-Ready Virtual Internship — AICTE
- Embedded Developer Virtual Internship — AICTE