

MANEPALLI NAVYA GNANA SINDHU

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LinkedIn Profile

Career Objective

Seeking a challenging role as an Embedded Engineer to apply my expertise in embedded systems design, micro controller programming, and real-time system development. Passionate about optimizing firmware, hardware-software co-design, and integrating efficient embedded solutions using industry-standard tools and protocols.

Education

Bachelor of Technology in Electronics and Communication Engineering

Rajiv Gandhi University of Knowledge Technologies IIIT Srikakulam

CGPA: 9.0

Jun 2021 – May 2025 — Srikakulam, India

Pre-University Course

Rajiv Gandhi University of Knowledge Technologies IIIT Srikakulam

CGPA: 9.2

Jun 2019 – May 2021 — Srikakulam, India

Board of Secondary Education

Z.P.P. High School

CGPA: 10.0

Jun 2018 – Mar 2019 — Veeravaram, India

Technical Skills

•Digital Electronics •Network theory •Python Basics •Embedded systems •Protocols(MQTT)
•C Programming Fundamentals •IOT •Tools: Kicad,Aurdino IDE,Matlab •Analog basics

Soft Skills

•Critical Thinking
•Innovative
•Team Leadership
•Problem-Solving

Projects

Securing Iot Devices Using MQTT Protocol (2024)

The project aims to address these vulnerabilities by implementing and integrating security mechanisms, including encryption, authentication, and data integrity checks, into MQTT-based IoT networks. By focusing on securing the communication channels between devices, the goal is to ensure the confidentiality, integrity, and availability of the data exchanged, preventing potential cyber attacks that could compromise the IoT ecosystem

Light Automation Using Bidirectional Visitor Counter (2024)

The concept behind this project is to cut power supply when there is no one in the room, thus reducing energy consumption ,and also we have to save the power in future generation.

Wireless charging for electrical vehicle (2023)

project is based on inductive wireless charging system basic principle of IWC is faraday's law of induction wireless transmission of power is achieved by mutual induction of magnetic field between transmitter and receiver coil.

Home Automation Using Arduino (2023)

Home Automation using Arduino enables remote control of appliances via Bluetooth. It integrates relays, sensors, and communication modules with an Arduino micro controller. The system automates lighting, security, and

energy management. It enhances efficiency, security, and user convenience. The project is cost-effective and easily customisable.

Certifications

PCB Design - IGM (June-July 2024)

PCB design using kicad tool creat schematic,3D viwer and connect electronic components and physical form of electronic circuits.

Embedded online Internship- Emertexe (Jan-Feb 2025)

Using Picsim lab,XC8 compiler and MPlab IDE using projects and c programming language .

Embedded For Beginners - NIELIT (Feb 2025)

Understanding the Embedded systems and Fundamentals of C programming language.