

CURRICULAM VITAE

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Career Objective

Motivated **Embedded Systems Engineer** with expertise in **Embedded C**, **IoT Development**, and **Microcontroller Programming**. Seeking to apply skills in **embedded systems design**, **data analysis**, and **real-time system development** to contribute to innovative projects and enhance career growth in **IoT**, **electronics**, and **software engineering**.

Education

- ❖ Bachelor of Technology in Electronics and communication Engineering Marri Laxman Reddy institute of technology and management Engineering College, JNTU-Hyderabad
2020-2024. **(CGPA-8.0)**
- ❖ Intermediate (MPC)
Narayana Junior college,Hyderabad
Board of Intermediate Education, Telangana
2018-2020. **(CGPA-85)**
- ❖ Secondary Education (10th)
Samskruti Vidyalaya School, Hyderabad
Board of Education, Telangana
2017-2018. **(CGPA-8.7)**

Technical Profile

- **Programming Languages:** C, Embedded C, Python, HTML
- **Embedded Systems:** Microcontrollers, NodeMCU
- **Data Structures & Algorithms**
- **Tools & Technologies:** MS Office, SQL Server
- **Operating Systems:** Linux
- **Database Management Systems (DBMS):** SQL Server

Projects

- ❖ **Laser Security Alarm:**
 - Designed and implemented an **intruder detection system** using **laser diodes**, **Light Dependent Resistors (LDR)**, and **Embedded C** for real-time monitoring.

- Integrated **microcontrollers** to control system functionality and trigger alarms upon **laser interruption**.
- Conducted thorough **system validation** to ensure accuracy in detecting unauthorized access and enhanced security.
- Employed **real-time system design** principles and **electronic circuit design** to ensure energy efficiency and reliability.

❖ IOT Based on Energy Monitoring System:

- Developed a **wireless energy monitoring system** using **NodeMCU**, **IoT technologies**, and **cloud data storage** to track **voltage**, **current**, and **power consumption**.
- Integrated **cloud platforms** like **ThingSpeak** for remote monitoring and real-time analytics.
- Programmed **Embedded C** for data processing, **Wi-Fi connectivity**, and system optimization.
- Created a user-friendly **LCD interface** for local data visualization, and implemented **alerts** for abnormal power consumption using **IoT-based notifications**.

Certifications

- **Programming Essentials in C** – Cisco
- **Basics of HTML** – Learn Tube
- **Basic Python** – CodeChef
- **SQL Intermediate** – HackerRank
- **Introduction to Advanced Programming in C** – Cisco
- **Web Development Internship** – InternPE (Virtual Internship)

Internships

Web Development - Certificate

A virtual Internship authorized by offered through Intern PE.

- Developed and deployed **responsive web applications** using **HTML**, **CSS**, **JavaScript**, and **Node.js** for both front-end and back-end functionality.
- Worked with **SQL databases** for performing **CRUD operations** and optimized **data handling** through **REST APIs**.
- Enhanced user experience by implementing **dynamic features** such as **data validation**, **real-time data updates**, and **interactive web forms**.
- Managed project workflows using **Agile methodologies** to deliver updates iteratively and maintain code quality with **Git version control**.

ATS-OPTIMIZED keyword

Embedded Systems, IoT Development, Microcontroller, C Programming, Embedded C, Real-Time Systems, Cloud Integration, SQL, NodeMCU, Arduino, Web Development, API Integration, Agile, Version Control, Wireless Communication, Data Structures, Debugging, IoT Solutions, Sensor Integration, MySQL.