

# TEJASWINI MADHURI GORLA

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## Career Objective

Seeking an entry-level position as an Embedded Software Engineer to apply my knowledge of C programming, microcontrollers, and embedded systems design. Eager to contribute to innovative projects, enhance my technical skills, and collaborate with a dynamic team to develop efficient and reliable embedded solutions.

## Academic Qualification

2020-2024	<b>B. Tech(ECE)</b> Sri Vasavi Engineering College, Tadepalligudem CGPA: 7.77
2018-2020	<b>Intermediate(MPC)</b> Aditya Junior College, Tadepalligudem CGPA: 8.5
2017-2018	<b>SSC</b> TSM ZP High School, Tadepalligudem CGPA: 7.5

## Core Skills

Programming Languages	C, Assembly Language, Embedded C
Controllers	Atmega 8051, Arduino UNO, PIC, STM32F103, LPC2148
Tools	Keil, MPLAB, Arduino IDE, Dev C++, CubeIDE, Proteus
Protocols	UART, I2C, SPI, CAN
Operating System	Linux(UBUNTU), Windows, RTOS

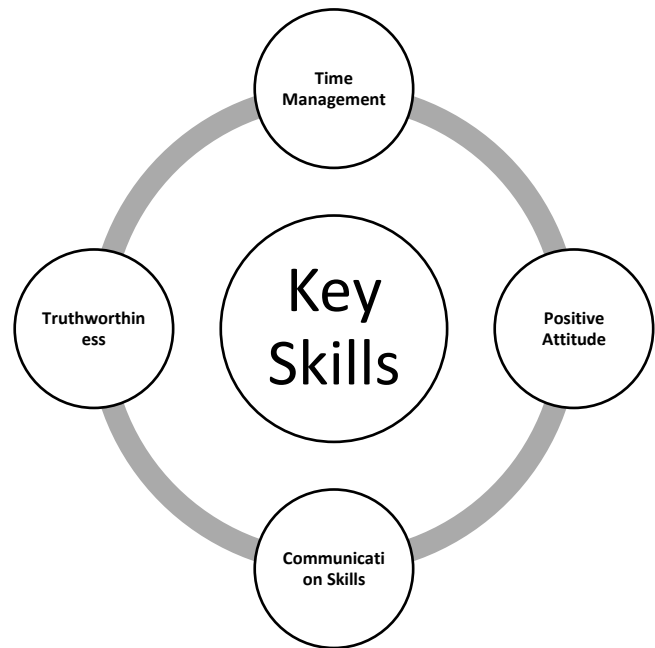
## Experience

4/2024 – Present	Embedded Trainee - EROTECH SOL PVT LTD,Hyderabad
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## Training

12/2023 – 04/2024	IOT at Spypro Security Solutions Pvt Ltd, Vijayawada
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## Projects



### 1. Mobile Health Monitoring System with Sensor Integration for Real-time Bedridden Patient Data

The Mobile Health Monitoring System is an IoT-based solution for real-time tracking of bedridden patients. It uses sensors to monitor vital signs and wirelessly transmits data to a mobile app. In emergencies, it automatically alerts caregivers, ensuring quick medical response and improved patient care.

#### Key Contributions:

- Real-time Monitoring: Continuously tracks vital signs like heart rate and blood pressure.

- Wireless Data Transmission: Sends health data to a mobile app for easy access.
- Instant Alerts: Notifies caregivers in emergencies or abnormal conditions.
- Remote Access: Allows doctors and family to monitor patients from anywhere.
- Better Patient Care: Ensures quick medical attention and improved healthcare.

## **2. Automatic Streetlight Control with SMS and Failure Detection**

This project enables remote control of streetlights using GSM technology. A microcontroller (Arduino Uno) is interfaced with a GSM modem to receive SMS commands from a user's mobile phone. Upon receiving a predefined message, the microcontroller controls the streetlights via relays and sends a status update back to the user. Additionally, the system includes a failure detection mechanism that monitors the lights. If a failure occurs, an alert LED is activated, and an SMS notification is sent to the user.

### **Key Contributions:**

- Developed a GSM-based streetlight control system using Arduino.
- Implemented UART communication for SMS-based control via SIM800/SIM900.
- Integrated failure detection with SMS alerts and LED indications.
- Designed relay-based switching for efficient multi-light control.
- Programmed in Embedded C for automation and real-time updates.

### **Technologies Used:**

- Components : Arduino Uno, GSM module, Relays, Leds
- Tools : Arduino IDE, Proteus
- Protocol : UART

### **Personal Details**

Date of Birth: 22 / 06 / 2002

Languages Known: Telugu, English

Address: Weakens Colony, Near Krishna Temple, Tadepalligudem, Andhra Pradesh