

To obtain a responsible and challenging position where I can use my skills and capabilities through sincerity, hard work and dedication for successful career and growth of the organization.

EDUCATION:

- ❖ University College of Engineering, Osmania University **8.75GPA | Oct 2022-Aug 2024**
 - Master of technology in Embedded system & VLSI Design
- ❖ Sreenidhi Institute of Science and Technology **8.40GPA | Aug 2018 - June 2022**
 - Bachelor of technology in Electronics and Communication Engineering
- ❖ Sri Chaitanya Junior College **94% | Apr 2016 – May 2018**
 - Board of Intermediate Education
- ❖ Brilliant Grammar High School **9.30GPA | Mar 2015 – Feb 2016**
 - Board of Secondary Education

SKILL DEVELOPMENT AND TRAINING:

- ❖ Pursued Advanced Course in Embedded Systems at VECTOR INSTITUTE **Mar 2024 – Sep 2024**
 - Trained in Programming Languages: C, CPP, Embedded C with Practical Examples.
 - Worked with hardware (LPC2148 Development Board) to interface various modules like LEDs, LCD, Keypad to ARM Microcontroller.
 - Executed the Project Automatic tunnel lighting system for road traffic with Auto exhaust fan using Arduino.

TECHNICAL EXPERIENCE:

- ❖ Worked as Member Technical at ADP India. **Jun 2022 - Nov 2022**
 - Worked collaboratively in a software development environment
 - Gained exposure to teamwork, documentation, and debugging practices.

TECHNICAL SKILLS:

- ❖ **Programming:** C, C++, Embedded C
- ❖ **Modules and Platforms:** Arduino UNO, Raspberry Pi, STM32 Microcontroller
- ❖ **Core Skills:** Good understanding of ARMv7 architecture
- ❖ **Protocols:** UART, I2C, SPI (used in sensor/motor interfacing)
- ❖ **Layout Tools:** Cadence Virtuoso
- ❖ **Operating Systems:** Unix/Linux

PROJECTS:

- ❖ **Alert System for Epileptic Seizure.**

This real-time wearable health monitoring system enhances safety for epilepsy patients by detecting seizures using ADXL345, Flex, heart rate, and DHT11 sensors. Built on an STM32 microcontroller, it transmits data via ESP8266 to Google Firebase, triggering alerts and door unlocking through NodeMCU and a servo motor. It features an APR9600 voice module for audible alerts and provides real-time data visualization

 - **Platform:** Arduino UNO.
- ❖ **Automatic tunnel lighting system for road traffic with Auto exhaust fan using Arduino.**

This project develops an energy-efficient intelligent lighting system for double-track road tunnels using an ATMEL 89C51 microcontroller. It employs four infrared sensor pairs to detect vehicle presence and control lighting independently for each track. The system saves energy by turning off lights when no traffic is detected and manages tunnel emissions with automatic exhaust fans.

 - **Platform:** Keil uVision.
- ❖ **Design of 4 Bit Carry Select Adder in 180nm in Cadence Virtuoso.**

This project implements a 4-bit Carry Select Adder in 180nm CMOS using Cadence Virtuoso, optimizing speed by parallel computation of sum and carry using multiplexers. The design includes schematic, DRC/LVS-clean layout, and post-layout simulation for performance analysis.

 - **Platform:** Cadence Virtuoso.

PUBLICATIONS AND CONFERENCES:

- ❖ Paper title: Signature Verification using Neural Networks (IJRASET44035) | International Journal of Research in Applied Science and Engineering Technology | Recent Advances in Electronics and Communication Engineering-2022