

# ELLA PAVAN KUMAR

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Location: Hyderabad

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## **CARRIER OBJECTIVE:**

To be a part of the embedded industry where I can utilize and apply my knowledge and skills. As a fresh graduate, I aim to grow while fulfilling organizational goals.

## **TECHNICAL SKILLS:**

**Programming Languages:** C, Embedded C

**Communication Protocols:** UART, I2C, SPI, CAN

**Software Tools:** Arduino, MPLAB, VS code

**Simulation Tools:** Proteus, Multisim

Familiar with PIC16F877A, Arduino Uno, ESP8266

Knowledge on PCB designing

## **PROJECTS:**

### **Project 1:**

#### **Project title: Automatic Projector Control Using Weight Detection and IR Communication**

##### **DESCRIPTION:**

Designed and implemented a system to automatically control a projector based on the weight detected on a chair. Utilized an IR receiver to detect signals from the projector remote and an IR transmitter to send ON/OFF commands to the projector. Integrated a buzzer to alert users when the system is activated. Developed and tested the system using Embedded C in Arduino IDE, with the code deployed on an Arduino Uno microcontroller.

##### **Roles and responsibilities:**

- Check the incoming signal from IR remote to turn ON and OFF the projector.
- Develop a code to transmit the signal to turn ON and OFF the projector by using Arduino uno and IR transmitter.

### **Project 2:**

#### **Project Title: Early fire detection robot**

##### **DESCRIPTION:**

Developed a robot capable of detecting flammable gases such as Methane, Butane, LPG, and Smoke using an MQ-2 gas sensor. Implemented a threshold-based system to identify gas levels and programmed the robot using Embedded C in Arduino IDE. Deployed the code on an ESP8266 microcontroller, enabling IoT connectivity for remote monitoring and control. The ESP8266 displays the IP address on the Arduino IDE Serial Monitor, allowing users to control the robot and receive alerts via a web interface..

##### **Roles and responsibilities:**

- Developing Debugging and testing the code.
- Integrate the circuit on robot.

## **INTERSHIPS:**

- Completed the Hardware and Networking, CCNA Internship with a duration of 10 weeks by “SILICON INFO SYSTEMS”.
- Trained in Embedded Systems at RTech Academy.

**ACADEMIC DETAILS:**

Qualification	Institution	University/ Board	Course Duration	Percentage/ CGPA
B. Tech (ECE)	Swarnandhra College of Engineering and Technology (Seetharampuram)	J.N.T.U.K (Autonomous)	2021-2024	8.15
Diploma (ECE)	ANDHRA POLYTECHNIC. (Kakinada)	State Board of Technical Education and Training (SBTET)	2018-2021	74%
S.S.C	Sree vidyaniketan	Board of Secondary Education, AP	2017-2018	9.7

**LANGUAGES**

- Telugu
- English

**INTERESTS**

- Playing Kabaddi
- Cooking
- Listening Music

**DECLARATION:**

I hereby declare that the facts given above are genuine to the best of my knowledge and belief

Place:  
Date:

**Ella Pavan Kumar**  
Signature