

# Bala Venkata Varun Kumar Palpeogu

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 Male(He/Him)    Single    Varun Kumar    vk2k3kid

## Objective

- Obtain a challenging leadership position applying creative problem solving and lean management skills with a growing company to achieve optimum utilization of its resources and maximum profits.

## Education

**Bachelor of Technology in Electronics and Communication Engineering** 2020 – 2024  
*Rajiv Gandhi University of Knowledge Technologies- Andhra Pradesh (Ongole)*  Ongole

**Pre-University Course** 2018 – 2020  
*Rajiv Gandhi University of Knowledge Technologies- Andhra Pradesh (Ongole)*  Ongole

**Secondary Education** 2017 – 2018  
*Zilla Parishad High School-Mallavolu, Krishna-II* Mallavolu

- GPA: 10.0

## Professional Experience

**Technical Mentor & a Trainee** Jun 2024 – Feb 2025  
*Qlearncept Ed Tech*  Hyderabad

- Worked as a Technical Mentor at Qlearncept EdTech LLP – Conducted STEM sessions in schools, developed R&D projects, and created digital content.

**Embedded Systems Intern** Dec 2023 – Mar 2024  
*Mechinex Automation Pvt. Ltd.*  Coimbatore(Virtual)

**IoT Intern** Mar 2023 – May 2023  
*Emertxe Information Technologies*  Virtual

This Internship Provided Hands-On Exposure on

- Foundational Programming Skills in C & Micro-Controllers
- SDLC Based Project Building in IoT

## Courses

**Artificial Intelligence and Machine Learning** Jul 2023 – Sep 2023  
*YBI FOUNDATION* Virtual

- Successfully completed two months Artificial Intelligence and Machine Learning certificate program cum internship.
- **Credential ID:** UZ6UA9NYO2RF5

**Master Class On Data Science And Analytics** Jan 2022 – Feb 2022  
*Pantech E-Learning* Virtual

- Successfully completed 30days Master class on Data Science and Analytics.

### **IoT based Home Automation Solution**

- Completed a SDLC Based Project Building in IoT(Home Automation) during Internship.

### **Door Alarm Using Arduino and Ultrasonic Sensor**

- Completed a project on Door Alarm using Arduino and Ultrasonic sensor as Academic miniproject.

### **Facial Recognition Based Door Lock Using Open CV,Python and Arduino**

- Completed Facial Recognition Based Door Lock Using Open CV, Python and Arduino as Academic Mini project.

### **Flood Detection System**

- Completed a Arduino based Flood detection system project as my Academic Project.

### **Smart TV gesture recognition using Machine Learning**

- Completed a small project on Gesture recognition using ML at tech Fest in ORNATE 2K22 held at RGUKT ONGOLE.

### **Bluetooth Controlled Car Using Live Feedback**

- Completed a small experimental project in ROBOTICS LABORATORY conducted at RGUKT ONGOLE.

### **Object detection using ESP32 CAM**

- Completed a project on object detection using ESP32 CAM.

### **Clap Circuit**

- Implemented a sound-activated switching mechanism using a sound sensor and Arduino to control an output device.

### **RGB Led with Sa Re Ga Ma Pa Tones**

- Programmed an Arduino to produce musical notes ON Buzzer (Sa, Re, Ga, Ma, Pa) based on LED color changes.

### **Soil Moisture Level Indicator**

- Developed a system to monitor soil moisture levels using LED indicators for water requirements.

### **Obstacle Avoiding Robot**

- Built an autonomous robot using an ultrasonic sensor to detect and avoid obstacles.

### **Line Following Robot**

- Created a robotic system that follows a predefined path using IR sensors.

### **Self-Watering Plant**

- Designed an automated irrigation system using soil moisture sensors for efficient plant watering.

### **Bluetooth-Based Home Automation**

- Developed a Bluetooth-controlled smart home system.

### **Heart Rate Monitor**

- Developed a heart rate monitoring system using Arduino and a pulse sensor.

### **Smoke Detector**

- Created a smoke detection system using an MQ2 sensor and Arduino.

### **Multi-LED Blink and Sound Symphony**

- Programmed multiple LEDs and a buzzer with Arduino to create a synchronized light and sound display, enhancing creative problem-solving.

### **BouquetBot(Bluetooth Controlled Robot)**

- A Bluetooth-controlled 4-wheel robot with a cardboard body and wooden base, designed to deliver bouquets to guest at the STEM Expo held at Pranav International School-Maruthi Nagar(Hyderabad).

## Skills

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### Technical Skills

- **Robotics and Embedded Systems**
- **Programming & Coding** – C, C++, Python

### Soft Skills

- Teaching & Curriculum Development
- Public Speaking & Presentation
- Collaboration & Teamwork
- Curriculum Design & Content Creation

### 3D Modeling & CAD

- Proficient in using software like SketchUp, Tinkercad, and Inkscape for creating 3D models and designs for educational projects.

### Circuit Design & Electronics

- Proficient in writing code for circuits and sensors, including integration with various electronic components.

## Achievements & Awards

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### Certificate of Recognition

May 2020

*ASSOCIATION OF INDIAN LAW LIBRARIES*

- For having completed and secured qualified score based on online academic quiz competition organised by Association of Indian Law Libraries (AILL).

### Pratibha Puraskar-2018

May 2018

*SWARNA BHARAT TRUST & SRI MUPPAVARAPU FOUNDATION*

Gannavaram, Vijayawada

- Received Prathibha Award from Honorable Vice President of India in 2018.

### PRATHIBHA AWARD-2018

Aug 2018

*STATE GOVERNMENT-Andhra Pradesh*

Ongole

- Received Prathibha Award from Honorable Chief Minister of Andhra Pradesh in 2018.

### Certificate of Appreciation

May 2018

*Zilla Praja Parishad School Education Department- Krishna District*

Vijayawada

- Received Certificate of Appreciation from the District Educational Officer, Collector and District Magistrate, and Chairperson of Zilla Praja Parishad of Krishna District in 2018.

## Organisations

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### National Service Scheme

Aug 2022 – Sep 2023

*Student Volunteer*

Ongole

- Worked as an NSS volunteer under Unit-III(RGUKT ONGOLE) during 2022 to 2023.

## Languages

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English, Telugu