YERRA VAMSI MARKANDEYA

Rajiv Gandhi Nagar, Bachupally, Hyderabad | +91 72072 45850 | yerravamsimarkandeya@gmail.com
LinkedIn: Vamsi Markandeya Yerra | GitHub: Vamsi-711

PROFESSIONAL SUMMARY

I am a Third-year B.Tech Electronics and Communication Engineering student at KLH University with strong interest in embedded systems, IoT, and circuit design. I have hands-on experience in analog electronics, PCB design, and microcontroller-based systems, along with proficiency in C, C++, Python, and Java. A quick learner with strong problem-solving skills, I am passionate about applying engineering knowledge to build efficient, real-world solutions and continuously enhance my technical expertise.

EDUCATION

Bachelor of Technology   September 2023 - Present
KLH University, Bachupally
CGPA upto 5th semister :8.8/10

Intermediate Education   June 2021 - May 2023
Narayana Junior College.
Board Of Intermediate Education, T.S, Percentage: 88.9

SSC, Class X   March 2020 - March 2021
Triveni High school , Hyderabad, CGPA:10

TECHNICAL SKILLS

Programming Languages	C, C++, Python, Java
Web Technologies	HTML, CSS, SQL
Embedded Systems	8051, 8086, Arduino, STM32
IoT Technologies	Internet of Things (IoT)
VLSI & Design Tools	Cadence Virtuoso
Electronics Design	Analog Circuit Design, PCB Designing

PROJECTS

Spider-Bot for Serene Surveillance
Developed an IoT-enabled spider robot using Arduino Nano and servo motors for controlled locomotion. Integrated Bluetooth-based control and an ESP32 camera module to enable real-time video surveillance and remote monitoring.

Hand-Gesture-Controlled Car with Speed and Direction Control
Designed a gesture-controlled robotic car using ESP32 and MPU6050 accelerometer to regulate speed and direction. Implemented Wi-Fi communication for stable real-time control of DC motors, strengthening skills in embedded systems and sensor interfacing.

ECG-Based LED Control System
Developed a bio-signal–controlled system to operate an LED using ECG signals. Interfaced an ECG sensor with Arduino UNO, processed analog heart signals, applied thresholding techniques, and triggered LED output based on real-time ECG activity.

Smart Locking System Using 8051 Microcontroller
Implemented a password-protected door locking system using the 8051 microcontroller. Integrated keypad input, LCD display, and relay-controlled locking with alert mechanisms for incorrect password attempts.

ML Model for Event Ticketing and Registration Prediction
Developed a machine learning model to predict user likelihood of purchasing event tickets by analyzing historical

sales data, event types, locations, and user demographics. Enabled data-driven marketing optimization for event organizers.

ML Model for Telugu Movie Hit/Flop Prediction
Built a machine learning model using Python to predict movie success based on genre, budget, cast, and sentiment analysis. Performed data preprocessing, feature engineering, SMOTE balancing, and trained Random Forest and XGBoost models.

CERTIFICATIONS

- AWS Cloud Practitioner

- Embedded Systems and IoT programming - Taras Systems and Solutions

- Python Essentials – Cisco

- C Essentials – Cisco

- Spectre Simulator – Cadence

POSITION OF RESPONSIBILITY

Head of Film Making Club
September 2024 – May 2026

· Led planning, direction, and execution of short films and creative media projects.
· Coordinated club activities, managed team members, and organized film-related events and workshops.

Captain, College Cricket Team

· Led the college cricket team in inter-collegiate tournaments and practice sessions.
· Demonstrated leadership, teamwork, and strategic decision-making under competitive environments.