

# Venkata Karteek Potnuru

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## Career Objective

Aspiring Electronics and Communication Engineer with strong coding skills in Python, C, Java, HTML, and CSS. Passionate about blending hardware and software expertise to contribute to innovative projects in Embedded Systems, VLSI Design, Signal Processing, IOT, and Full-Stack Development. Committed to delivering integrated solutions that advance technology and optimize performance.

## Education

### Dr. Lankapalli Bullayya College

Bachelor of technology in Electronics & Communication

2022 - 2025

Visakhapatnam, Andhra Pradesh

### Chaitanya Engineering College

Diploma in Electronics & Communication

2019 - 2022

Visakhapatnam, Andhra Pradesh

### Ravindra Bharathi School

S.S.C

2018 - 2019

Visakhapatnam, Andhra Pradesh

## Skills

**Programming languages:** C, Python, Java, HTML, CSS, Javascript

**Frameworks & Libraries:** Pandas, NumPy, Matplotlib

**Techniques:** Data Analysis, Data Visualization

**Soft Skills:** Problem-solving, Team Collaboration, Quick Learning, Communication Skill

## Projects

### College Website | HTML, CSS

- Designed a user-friendly and responsive college website interface using HTML and CSS ensuring compatibility across devices and browsers.
- Used modern styling techniques like CSS animations and transitions to create an engaging and professional design.

### Tic Tac Toe | Python

- Developed a classic Tic Tac Toe game using Python and Basic Libraries to deliver an engaging and interactive experience.
- The project uses the **random** library to make strategic decisions, like selecting the first player and choosing AI moves, and the **time** library to add delays for a smoother and more realistic gameplay experience, especially in Computer vs. Computer mode.

### Alcohol Detection & Engine Locking System | Embedded System

- Designed and implemented an alcohol detection system using sensors to analyze breath alcohol content, triggering an engine lock mechanism when alcohol levels exceed a set threshold.
- Integrated the system with an engine locking mechanism, improving vehicle safety by preventing ignition if alcohol consumption is detected, thereby reducing the risk of impaired driving.
- An Arduino microcontroller, showcasing real-time decision-making and embedded systems skills.

### Automatic Lift Using PLC & SCADA | Industrial Automation

- Designed and programmed a PLC and SCADA system to automate the operation of an elevator, including floor selection, door control, and safety features, ensuring smooth and efficient lift functioning.

## Internships

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- Data Analyst with Python in Intern certify (August - 2024)
- Embedded Systems and IOT in L&T , Visakhapatnam (June - 2024)
- Telecom in BSNL , Visakhapatnam (June - 2023)
- Basics of PLC and SCADA in CEMS, Visakhapatnam(September - 2021 to February - 2022)

## Certifications

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- Certified in Python Project for Beginners from Great Learning in September 2024
- Certified in Technical Project Expo from Dr.LB College in January 2024
- Certified in Elements of AI from the University of Helsinki in September 2023
- Certified in Communication Skills and Presentation from TCS Ion in June 2023
- Certified in Tele Communications from BSNL in June 2023
- Certified in Essential Life Skills from IIT, Varanasi in March 2023
- Certified in PLC and SCADA basics from CEMS in February

## Hobbies

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- Coding
- Exploring New Technologies
- Photography
- Listening Music

## Languages

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- English
- Telugu
- Hindi

## Declaration

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I hereby declare that the information provided in this resume is true and accurate to the best of my knowledge and belief. I understand that any Misstatement of facts may lead to the rejection of my application of employment if discovered later.