

# Hemanth S Kumar

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## CAREER OBJECTIVE

Final-year Electronics and Instrumentation Engineering student skilled in embedded systems and IoT. Experienced in real-time hardware projects for safety and automation. Eager to contribute technical expertise to embedded engineering roles.

## TECHNICAL SKILLS

- **Programming:** C, C++, Python, HTML, CSS
- **Microcontrollers:** ESP32, Raspberry Pi, Arduino
- **Tools/IDEs:** MATLAB, Multisim, LabVIEW, Cadence
- **Protocols:** UART, SPI, I2C, CAN
- **Other:** Linux, Git

## KEY PROJECTS

### Real-Time Elevator Safety System (Ongoing)

*Tools: ESP32, HX711, GSM, Sensors*

- Built system to detect power failure and send alerts.
- Used load cells for passenger detection.
- Enabled emergency notifications via GSM.

### Multichannel Stethograph (2023–2024)

*Tools: Raspberry Pi 3B, Python, Sensors*

- Developed tool for heart signal monitoring.
- Analyzed vibration data for abnormal heartbeats.

### IoT Micro Projects (2023–2024)

*Tools: ESP32, Arduino, Raspberry Pi*

- Created prototypes for automation and monitoring.
- Focused on real-time sensing and control.

## INTERNSHIP

### CodeChef – 2 Months

- Completed DSA training (recursion, sorting, trees).
- Gained skills in algorithms and logical programming.

## EDUCATION

### Siddaganga Institute of Technology, Tumakuru

2022–2026

B.E., Electronics and Instrumentation Engineering

CGPA: 6.00

## CERTIFICATIONS

- Data Structures and Algorithms – CodeChef, 2024
- Prompt Engineering – Online Platform, 2024

## LEADERSHIP & ACTIVITIES

- Volunteer, Technisium Tech Event – Siddaganga Institute of Technology, 2024