



## HRITHWIK GOPI

### Embedded Systems Engineer

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## Summary

As an innovative Embedded Systems Engineer, I specialize in circuit design, microcontroller programming, and IoT solutions. My passion lies in developing low-power, real-time embedded systems that integrate BLE, Wi-Fi, and LoRa technology. With proven abilities in firmware development and PCB design, I am dedicated to creating scalable and high-impact embedded solutions

## Experience

### Quest Innovation Solutions

Kerala

#### Embedded System Trainee

07/2024 01/1970

Embedded System Trainee

- Gaining hands-on experience in embedded systems design, IoT integrations, and C programming

### IIIT Hyderabad

Hyderabad

#### Research Intern

01/2021 03/2021

Research Intern

- Collaborated with Dr. Sachin Chaudhari on embedded systems research for IoT applications

## Education

### Calicut University, C.H.M.K.M Govt. College

Kerala

B.Sc. Electronics

08/2021 05/2024

## Key Achievements

□ Vocation Expo 2019 3rd Prize

\* 15th Vocation Expo B Grade

k District-Level YIP Participant

## Languages

English Proficient ●●●●●

Malayalam Native ●●●●●

## Skills

- Embedded Hardware: Circuit Design, PCB (EasyEDA), Sensors, Low-Power Design
- Microcontrollers: ARM Cortex, ESP32, STM32, PIC
- Wireless: BLE, Wi-Fi, LoRa, Telegram API
- Wired Protocols: I2C, SPI
- Languages: Embedded C/C++, Python (Basic)
- Tools: LTspice, Keil, STM32CubeIDE, Arduino IDE
- Other: House Wiring

## Projects

### Wildlife & Human Detection System

Kerala

Final Year Project focused on wildlife detection

03/2024 03/2024

### Smart Home Automation

Kerala

Project presented at Vocation Expo 2019

10/2019 10/2019

### Water Level Monitoring System

Hyderabad

Internship project focused on water level monitoring

01/2021 01/2021

## Interests

U Hobby Electronics  
Enjoy hobby electronics projects like water level indicators and parking sensors

G Technical Reading  
Engage in technical reading to stay updated with advancements in technology