



# Ganga PB

Aspiring Electronics and Communication Engineer

## 👤 Career Objective

A recent Electronics and Communication Engineering graduate with a keen interest in Digital Electronics. Experienced in building smart systems, demonstrated by a project on heart attack detection and heart rate monitoring. Looking to apply my skills to create innovative and impactful software solutions.

## 🛠 Skills

Adaptability  
Critical Thinking  
Coordination  
Problem solving  
Teamwork  
Tools - Xilinx SPARTAN |  
MATLAB| Proteus | Code  
Composer Studio |  
LTSpice | canva | MS Word  
|MS Excel

## 🛠 CERTIFICATES

Mastering Raspberry PI with Python  
Smart India Hackathon(Prelims)

## 🛠 HOBBIES

Reading | Art & crafts | Music

## 🎓 Education

- **Btech in Electronics and Communication** 2022-present  
*Mohandas college of Engineering and technology, Trivandrum, Kerala*  
**CGPA-7.6/10**
- **Higher Secondary-ISC 94%** 2020-2022  
*Good Shepherd English Medium School, Pathanamthitta*
- **Secondary School- ICSE 85%** 2019-2020  
*Good Shepherd English Medium School, Pathanamthitta*

## 🛠 Project Work

### IoT-Based Heart Rate and Health Monitoring System

Designed and implemented a wearable device using ESP32 to monitor heart rate, SpO<sub>2</sub> levels, and detect potential falls or cardiac anomalies in real-time.

- Integrated MAX30102, AD8232, and MPU6050 sensors with OLED display for real-time health metrics and alerts.
- Implemented vibration and push-button alert system for emergency response with minimal user interaction.

## 🛠 Experience/Internship

### Career Academic Councilor Intern(Part time Job)

CleverLearn Edu Solutions, Thiruvananthapuram  
Mar 2025 – May 2025 | Stipend: ₹5,000/month

- Engaged with prospective students and parents to guide higher education choices across 250+ partnered institutions.
- Handled student profiling, pain-point identification, and lead nurturing across sales funnels to optimize conversion.

### Worked on Embedded Python Programming using Raspberry Pi

Quest Innovative Solutions, Thiruvananthapuram

- Designed and deployed Python applications on Raspberry Pi for automation, IoT, and embedded system projects.
- Integrated sensors, actuators, and peripheral devices to enable real-time monitoring and intelligent control systems.