

# G N PUTTARAJA

✉ puttaraja.lsi22ei006@gmail.com

+91 8217662299

## Objective

---

To leverage my skills in electronics, embedded systems, and hardware design to contribute to the development of innovative real-time solutions that enhance efficiency and reliability.

## Skills

---

<b>Electronics:</b>	Control Systems, Microcontroller, IOT, Automation, Digital Electronics, Sensors.
<b>Programming Languages:</b>	C++, C, DBMS.
<b>Tools:</b>	Matlab, PLC(WPL 2.4.1), Arduino IDE.
<b>Operating System:</b>	Windows.

## Core Competencies

---

Embedded Systems | Control Systems | IoT Hardware Design | Sensor Integration | Hardware-Software Interface

## Projects

---

### Smart Drone-Based Surveillance System with Autonomous Flight 2025

- Designed and developed a drone using KK 2.1.5 flight controller and ESP32-CAM for autonomous flight, live video transmission, and real-time object detection using YOLO AI model.

### Assistive Device for Elderly Citizens 2024

- Developed a GSM-based communication device enabling one-touch emergency alerts with audio guidance, designed for ease of use and cost-effective assistance for elderly users.

### Portable Health Monitoring System 2024

- Developed an IoT-based portable health monitoring system that measures heart rate, oxygen saturation, and ECG signals using MAX30100 and AD8232 sensors, with real-time data transmission via ESP8266.

### Automatic Gate System using Arduino UNO and IR Sensor 2023

- Designed an Arduino-based automated gate system using IR sensor and servo motor for vehicle detection and timed auto-closing, enhancing security and convenience for residential use.

## Education

---

### Bachelor of Engineering in Electronics and Instrumentation 2022 - 2026

Siddaganga Institute Of Technology, Tumkur. CGPA: 7.62 / 10

### Pre-University Education, 2020 - 2022

VKJ PU College, Siraguppa, Ballari. Percentage: 71.83 / 100

## Extracurricular Activities

---

Completed NPTEL course “Microsensors and Nanosensors” – Elite Certified, 2025.

Participated Circuit-A-thon at Dayananda Sagar College of Engineering (Hackathon).

Participated Hackathon at Siddaganga Institute of Technology.

Participated IdEEEas at Siddaganga Institute of Technology.

## Summary

---

Enthusiastic Electronics and Instrumentation Engineering student with hands-on experience in embedded systems, automation, and IoT projects. Passionate about developing intelligent systems that integrate hardware, control logic, and communication for industrial applications.