

G N PUTTARAJA

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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

Electronics:	Control Systems, Microcontroller, IOT, Automation, Digital Electronics, Sensors.
Programming Languages:	C++, C, DBMS.
Tools:	Matlab, PLC(WPL 2.4.1), Arduino IDE.
Operating System:	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, VKJ PU College, Siraguppa, Ballari. Percentage: 71.83 / 100	2020 - 2022
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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.