

SINDYA RAJESH

Bengaluru, Karnataka

sindyarajesh2430@gmail.com

LinkedIn: www.linkedin.com/in/sindya-rajesh-9b636433a

9398427946

PROFESSIONAL SUMMARY

Motivated Embedded Software Engineer with hands-on experience in ARM7 (LPC2129) microcontroller programming and real-time communication protocols such as CAN, UART, SPI, and I2C. Strong foundation in C, C++, data structures, and memory management. Experienced in developing embedded firmware and implementing ECU communication systems. Eager to contribute to automotive and real-time embedded projects while continuously enhancing technical expertise.

TECHNICAL SKILLS

Programming Languages: C, C++, Embedded C

Microcontrollers: LPC2129 (ARM7), Arduino

Communication Protocols: CAN, UART, SPI, I2C

Operating System: Linux (Basic commands & concepts)

Development Tools: GCC, Keil μ Vision 5, Arduino IDE

PROJECTS

Dashboard Implementation Using CAN Protocol

- Developed embedded firmware for LPC2129 to enable CAN-based communication between simulated ECUs.
- Configured CAN registers and implemented message transmission and reception.
- Implemented message ID-based arbitration and priority handling.
- Displayed real-time vehicle data on LCD.
- Tested multi-node communication to ensure reliable data exchange.

Technologies: LPC2129 (ARM7), Embedded C, CAN Protocol, LCD

Mobile Robot Using IoT for Obstacle Avoidance

- Built a robot that detects and avoids obstacles using an ultrasonic sensor.
- Controlled motors based on distance measurement.
- Used ESP8266 for sending live data to ThingSpeak cloud.
- Performed basic testing and system integration.

Hardware: Arduino, Ultrasonic Sensor, Motor Driver, ESP8266

Software: Arduino IDE, ThingSpeak

PROFESSIONAL TRAINING

Embedded Systems Development

Vector India, Bengaluru

- Practical training in C programming, pointers, memory handling
 - Introduction to C++ and OOPS concepts
 - ARM7 microcontroller programming
 - Implementation of UART, SPI, I2C, and CAN protocols
 - Hands-on embedded application development
-

EDUCATION

Bachelor of Technology (B.Tech)

Electronics and Communication Engineering

Anantha Lakshmi Institute of Technology and Sciences

2020 – 2024 | CGPA: 7.4

SOFT SKILLS

- Problem Solving
- Analytical Thinking
- Team Collaboration
- Adaptability