

# KIRAN KOLLI

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## PROFESSIONAL SUMMARY

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Electronics and Communication Engineering graduate (2024) with practical experience in embedded software development and IoT projects. Skilled in C, C++, and Embedded C with strong knowledge of ARM Cortex, LPC2148, and Arduino microcontrollers. Experienced in real-time communication protocols (UART, I2C, SPI) and tools such as Keil and Arduino IDE. Seeking to contribute to embedded and semiconductor industry innovations with proven hands-on expertise.

## EXPERIENCE

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- **MicrosysLogic Pvt.Ltd Embedded software Develepor** Aug2024 - present
  - Developed a touchscreen-optimized GUI application using the Qt framework for an AI-based camera locking system.
  - Worked on shared memory and interprocess communication (IPC) techniques to synchronize GUI with system-level processes.

## PROJECTS

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- **IoT Weather Monitoring with Arduino, NodeMCU and MQTT | *IoT***
  - Developed an IoT-based weather monitoring system using Arduino Uno and NodeMCU.
  - Collected temperature and humidity data from a DHT11 sensor and transmitted it via UART.
  - Stored real-time data in the MQTT cloud for remote monitoring and access.
- **Obstacle Avoiding Bot using Arduino |**
  - Role played: Team member..
  - Designed and developed an autonomous obstacle avoiding bot capable of detecting and bypassing obstacles using real-time sensor data.
  - Programmed the Arduino UNO microcontroller using Embedded C in the Arduino IDE to calculate object distance using an ultrasonic sensor and adjust movement accordingly.

## SKILLS

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- **Languages:** C, Embedded C,C++
- **Controllors/Processors:** LPC2148, Arduino UNO, ARM Cortex
- **Software Tools:** Keil IDE, Arduino IDE
- **Operating System:** linux, Free RTOS
- **Protocols:** UART, I2C, SPI

## EDUCATION

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- **B.Tech in Electronics and Communication Engineering with CGPA: 7.60/10** Nov 2020 - Apr 2024  
*Rajiv Gandhi University of Knowledge Technologies - Nuzvid*
- **Rajiv Gandhi University of Knowledge Technologies - Nuzvid** November 2020  
*Pre-University Course (MPC)* GPA: 8.53/10
- **AP Model School - pathapatnam** April 2018  
*Secondary School Education* GPA: 9.8/10

## ACHIEVEMENTS

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- Represented RGUKT in the South Zone Inter-University Football Tournament.