

KARTHIK K

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OBJECTIVE:

Highly motivated and experienced embedded systems engineer with a strong background in C programming, microcontrollers, and software development. Proven track record of delivering high-quality projects on time, with a focus on innovation and efficiency. Skilled in problem-solving, team collaboration, and technical leadership.

CERTIFICATES:

PUMO TECHNOVATION INDIA Pvt. Ltd,.. EMBEDDED DEVELOPER :-

- Embedded C programming Language. Designing and developing Embedded software and hardware solution. Troubleshooting and debugging embedded system, resolving issues related to hardware, software and communication protocols.
- Developed for 8051, PIC16F877A microcontrollers, ensuring efficient and reliable operation.
- Conducted hardware interfacing for various sensors, displays, and wireless modules to meet project requirements. Designed and optimized communication protocols, including I2C, SPI and USART for seamless data exchange in embedded system.
- Development tools: MP-LAP IDE, KEIL, CODEBLOCKS, PROTEUS.

PROJECT EXPERIENCE:

• IMAGE PROCESSING BASED FIRE DETECTION.

Goal:

- Developed an image processing-based fire detection system using Raspberry Pi, enhancing real-time safety monitoring and alert systems.

• SMART IRRIGATION SYATEMS.

Goal:

- Designed a smart irrigation system using Arduino, optimizing water usage and improving agricultural efficiency through Automated control.

INTERNSHIPS:

- POLENZA TECH SOLUTIONS-CHENNAI.
 - Raspberry Pi (picoW RP2040) and IoT based real-time applications.
- CODEBIND TECHNOLOGIES-CHENNAI.
 - Done many projects by using Embedded Systems

EDUCATION SUMMARY:

- B.E Electronics and Communication engineering , Adhiparasakthi college of engineering, Ranipet district and obtained 81%. (2021-2025)
- HSC completed in Grace matric higher secondary school, Ranipet and obtained 88%. (2020-2021)
- SSLC Completed in Grace matric higher secondary school, Ranipet and obtained 83%. (2018-2019)

ADDITIONAL INFORMATION:

- Technical skill: C programming, circuit design and simulation.
- Soft skill: strong communication and teamwork skills, with experience working in collaborative environment, critical thinking and problem solving.

LINK:

- LINKEDIN: <https://www.linkedin.com/in/karthikk22>