

P J SUHAS

SUMMARY

Detail-oriented Embedded Engineer with expertise in Embedded C, C++, microcontroller programming, and firmware development. Previously part of the Engineering Validation Testing (EVT) team, optimizing systems for improved performance. Seeking to transition fully into embedded systems development, with a focus on embedded software and hardware-level programming. Proficient in Linux, including kernel module development and system-level testing. Passionate about continuous learning and collaborating to deliver high-quality embedded solutions.

EDUCATION

Rajarajeswari College of Engineering | Bengaluru (2018-2022)
B.E. | Electronics and Communication Engineering

EXPERIENCE

QNAP Corporation | Bengaluru, India | October 2023 - July 2024
Software Engineer - Engineering Validation Testing (EVT) Team

- Designed and developed robotic automation systems for test cases using Python, improving testing efficiency and reducing manual intervention.
- Created an automation framework that enhanced test execution speed and ensured comprehensive coverage of various testing scenarios.
- Led regression testing efforts, identifying defects and resolving issues to ensure software reliability and stability prior to release.
- Contributed to firmware updates, enhancing system functionality and optimizing device performance.
- Collaborated with cross-functional teams to analyze system requirements, troubleshoot technical challenges, and implement system improvements.
- Gained hands-on experience with Linux kernel modules, supporting the testing and validation of system robustness in diverse conditions.
- Conducted extensive performance testing, identifying areas for improvement and ensuring systems met high-quality standards.

PROJECT

Developed an embedded Car Black Box System using a microcontroller to log critical driving data, including speed and gear shifts. Implemented a user interface with password-protected access, allowing users to view, download, and clear driving logs. Utilized Embedded C programming, along with UART and I2C protocols, to capture and store event data efficiently. Data was logged in EEPROM to ensure secure, real-time monitoring and event recording.

CONTACT

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KEY SKILLS

- ADVANCED C
- C++
- EMBEDDED C
- MICROCONTROLLER
- LINUX
- SHELL SCRIPTING
- PYTHON
- COMMUNICATION PROOCOL

TOOLS

- PYCHARM
- VS CODE
- GITHUB
- JIRA
- JENKINS
- MPLAB X IDE