Wasif Izar

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Summary

Results-driven Senior Embedded Software Engineer with over 2.5 years of experience in ADAS-based automotive features. Skilled in Linux and AUTOSAR-based parking functionalities, SPI communication, and MISRA-compliant code development. Proactive in introducing AI-based solutions to boost development efficiency and software quality.

Technical Skills

Programming Languages: C, C++, Python

Software Architecture and OS: Linux, Qnx, AUTOSAR

Communication Protocols: SPI, CAN

Hardware / Platforms: ELMOS ultrasonic sensors, BOSCH ultrasonic sensors, Raspberry Pi, DE3 microcontroller

Validation & Testing Tools: gtest, HIL

Debugging & Development Tools: VS Code, AEEE Pro, WinIDEA, CMake, YAML, Docker,R , Splunk, Jira, Doxygen, Draw.io

Version Control: Git, Bitbucket

Experience

Senior Embedded Software Engineer Jan 2023 – Present
Bosch Global Software Technologies *Bengaluru, India*

- Developed parking software for ADAS using ultrasonic sensors (ELMOS, BOSCH GEN6/GEN7) and ECU ASICs for obstacle detection
- Implemented SPI communication for ECU ASIC register access, sensor configuration, and echo data handling
- Applied AI tools to automate code checks and test processes, improving development efficiency by 20%
- Conducted unit/component tests (gtest) and integrated software on Raspberry Pi and DE3 microcontroller
- Delivered MISRA-compliant code, achieving 100% QAC static analysis compliance
- Worked in Linux environment for development, flashing, and debugging; proficient with Git and shell commands
- Followed V-model SDLC processes, contributing across design, development, integration, and validation phases
- Generated design documentation using Draw.io (UML diagrams, data flow) and automated code documentation with Doxygen

Intern - Android App Development Sept 2021 – Jan 2022
Tata Consultancy Services *Remote*

- Developed an Android app using Java, XML, and Android Studio for COVID-19 case tracking
- Integrated REST APIs to fetch and display live government COVID-19 data
- Designed intuitive UI screens and implemented data parsing and display logic

Education

Visvesvaraya Technological University Raichur, India
B.E. in Computer Science & Engineering *July 2019 – June 2022*

Government Polytechnic Raichur, India
Diploma in Computer Science & Engineering *June 2016 – June 2019*

Achievements

- Winner of Software Defined Vehicle Hackathon (XSpace2.0) across BGSW India locations
- Recognized twice at BGSW for high-quality, on-time delivery of critical tasks