Wasif Izar

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SUMMARY

Results-driven Senior Embedded Software Engineer with 2.5+ years of experience in ADAS automotive software. Specialized in ultrasonic sensor integration, SPI/CAN communication, and MISRA-compliant C/C++ development on Linux and AUTOSAR platforms. Passionate about leveraging AI tools to enhance software quality and development efficiency. Recognized for delivering robust, safety-critical software in fast-paced environments.

TECHNICAL SKILLS

Programming Languages: C, C++, Python

Software Architecture and OS: Linux, Qnx, AUTOSAR

Communication Protocols: SPI, CAN

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

Validation & Testing Tools: gtest, HIL

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

Processes / Standards: MISRA standards, V-model SDLC

EXPERIENCE

Senior Embedded Software Engineer   Jan 2023 – Present
Bosch Global Software Technologies   *Bengaluru, India*
- Designed and developed ADAS parking software using ultrasonic sensors (ELMOS, BOSCH GEN6/GEN7) for obstacle detection
- Implemented SPI communication for ECU ASIC register access, sensor configuration, and echo data handling
- Appointed as AI Catalyst Lead; introduced AI tools, trained teammates, and drove adoption to improve efficiency
- Applied AI tools to automate code reviews and testing, increasing efficiency by 20%
- Conducted unit/component tests (gtest) and integrated software on Raspberry Pi and DE3 microcontroller
- Delivered 100% MISRA-compliant code, achieving full 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 - 8.4 CGPA   *July 2019 – June 2022*

Government Polytechnic   Raichur, India
Diploma in Computer Science & Engineering - 88%   *June 2016 – June 2019*

ACHIEVEMENTS

- Winner — Software Defined Vehicle Hackathon (XSpace2.0), BGSW India
- Twice recognized at Bosch for high-quality, on-time delivery of critical tasks