Sudip Ghosh

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Profile Summary

Software engineer with 3.3 years of experience in development and software design, with a solid grasp of C/C++ and hands-on experience. I look forward to working in an environment conducive to learning and growth.

Professional Experience

Harman Connected Services Pvt. Ltd.   *April 2022 – Present*
Project: VWN ID BUZZ AD 2.0 Automated Driving Functions
Role: Junior C/C++ Developer
Platform: AUTOSAR Environment using C/C++
Tools: VS Code, WSL, GIT, Parasoft, Bitbucket, Unit Test using GTEST, JIRA, EA, Code Beamer, CMake

Description: Application Software (ASW) development for OEM modules in the Volkswagen Project. VWN is building the next iteration of the ID. BUZZ autonomous vehicle for series production and we are supporting the development of Autonomous driving-specific features and applications. The main scope includes supporting autonomous driving functions for collecting, consolidating, storing, relaying, and reporting data. It is the first homologated AD series vehicle without a safety driver.

Roles & Responsibilities:

- Understanding System Requirement Analysis from Code Beamer.
- Led development for VWN's ID. BUZZ autonomous vehicle, focusing on the Vehicle Motion Control (VMC) feature of Autonomous Driving Functions (ADF)/ADAS using C/C++ in AUTOSAR SWC.
- Achieved 100% Code Coverage (including MCDC) using GTest, ensuring comprehensive testing and successful project outcomes.
- Addressed MISRA Issues/Parasoft warnings and adhered to functional safety guidelines (ASPICE), contributing to code robustness.
- Executed Low-Level Design (LLD) using the EA tool and actively engaged with architecture and clients for future project enhancements.
- Conducted code refactoring post-implementation to enhance overall code quality.
- Played a key role in critical releases and gave presentations for code inspection/reviews to the client, effectively communicating project details.
- BUG-Fixing: Testing team ticket fixing – Module: VMC.

Technical Skills

Languages: C/C++, Java
Development Tools: VS Code, Eclipse, WSL, Git, Bitbucket
Design Tools: EA (Enterprise Architect for LLD Design)
Ticketing Tools: JIRA
Requirement Tools: CodeBeamer
Frameworks/Testing: Google Test, Parasoft, Jenkins, Code Sonar, CMake
Technologies: AUTOSAR (SWC Layer), ADAS, MISRA C/C++ Guidelines, SDLC, STLC
Scripting Languages: HTML, CSS
Database: MySQL
Platforms: Windows, Linux
Applications: MS Excel, SharePoint, PowerPoint, Word

Educational Qualification

Dr. B. C. Roy Engineering College, Durgapur, West Bengal   *Aug 2018 – June 2022*
Bachelor of Technology in Electronics and Communication Engineering
- GPA: 9.19 / 10

Awards & Achievements

- Received the **BE BRILLIANT AWARD** from Harman for contributions to major releases.
- Appreciation from Management for excellent work and dedication.
- Achieved **5-star ratings** in C++ and Java from HackerRank.

Certifications

- Participated in "**To the Future & Beyond – Hackathon 3.0**" initiative at Harman.