

NAME: Sudip Ghosh

Contact Number: +91 8388972014

Email Id: sudip9691@gmail.com

Address: Kolkata, West Bengal

Profile Summary:

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

Experience: 3.3 years as a Software Engineer at Harman Connected Services Pvt. Ltd.

Work Experience:

Harman Connected Services Pvt. Ltd (April 2022 to Present)

Project:

VWN ID BUZZ AD 2.0 Automated Driving functions (April 2022 to Present, 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 will include 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 giving presentations for code inspection/reviews to the client, effectively communicating project details to clients and teams.

BUG-Fixing: Testing team ticket fixing – Module: VMC.

Technical Skills:

Skills: C/C++ Developer (3.3 years).

Development tool: VS Code, Eclipse, WSL, GIT & Bitbucket.

Designing Tool: EA (for LLD Design).

Ticket management Tools: JIRA.

Requirements Platform: Code Beamer.

Platforms: Windows, Linux.

Technical Languages: C/C++, JAVA.

Scripting Languages: HTML, CSS.

Framework: Google test for Unit testing.

Databases: MySQL.

Technologies: SDLC, STLC, AUTOSAR (SWC layer), Google test, Code Sonar, Jenkins code coverage, C/C++ MISRA guidelines, Cmake, ADAS;

Applications: MS Excel, SharePoint, PowerPoint, Word.

Educational Qualification:

Course	Percentage	School/College	Year of Passing (YOP)
B. Tech (ECE)	9.19(CGPA)	Dr. B. C. Roy Engineering College	2022

Awards/Achievements:

Received the BE BRILLIANT AWARD and appreciation from Management for being involved in major releases and good work.

Certifications:

- Participated in the "To THE FUTURE & BEYOND-HACKATHON 3.0" INITIATIVE in HARMAN
- 5 stars on C++ and JAVA from HackerRank.

Personal details:

- **DOB:** 20th FEB, 2001.
- **Marital Status:** Single.
- **Nationality:** Indian.
- **Languages known:** English, Hindi, Bengali.

Declaration:

- I hereby declare that all the details furnished above are true to the best of my belief.

SUDIP GHOSH