

# Siddharth Saini

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## SUMMARY

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Experienced Research Engineer with approximately 3 years of expertise in the Vehicle Connectivity Software (VCS) department at LG Soft India. Recipient of the prestigious High Achiever Award in 2024 for outstanding performance and contributions. Proficient in C++, STL, and Google Test, with strong expertise in ASPICE, Android Framework, and JIRA. Skilled in debugging, troubleshooting, and resolving static analysis issues to improve software quality and reliability. Demonstrates proficiency in implementing SOLID principles and adhering to Agile methodologies to deliver efficient and maintainable projects. Dedicated to continuous professional development, holding a certification in Linux.

## TECHNOLOGIES

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**Languages:** C++, OOPs, STL, Embedded C, Unit Testing.

**Core Skills:** Data Structures, Design Patterns, Multithreading, Debugging.

**Operating Systems:** Embedded Linux, Android Framework.

**Standards and Methodologies:** ASPICE, MISRA-C, AUTOSAR, SDL, Agile Methodology.

**Protocols:** I2C, UART, SPI.

**Tools and Platforms:** Git, VS Code, Jira, Code Beamer, Coverity.

**Basic Knowledge:** Qt, Binder IPC.

## EDUCATIONAL BACKGROUND

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**Galgotias College of Engineering & Technology**

2018 – 2022

Bachelor of Technology - Electronics and Communication Engineering

## WORK EXPERIENCE

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**Research & Development Engineer, LG Soft India Pvt. Ltd**

Mar 2022 – Present

- Working on the Telephony module to develop and optimize SMS, Call, and Network services within the Android Framework.
- Developing requirement-based system APIs aligned with client specifications and hardware design to enhance telephony services and overall system functionality.
- Optimizing Android framework-level components for telephony services by leveraging Binder IPC to enable efficient inter-process communication.
- Developing and maintaining unit test suites using the Google Test framework for reliable software delivery.
- Debugging Coverity-detected issues to ensure AUTOSAR, MISRA-C, and CERT compliance, enhancing code quality and reliability.
- Debugging and resolving complex system and functionality-based software issues to ensure stability and optimal performance.
- Maintaining ASPICE-compliant documentation, including SysRS, SAD, SDD, and test plans, ensuring traceability, structured software development, and adherence to industry standards.
- Contributing to automation projects, such as the Automatic Telematic Log Analyzer, to improve efficiency in log analysis.
- Performing Sanity Testing and Flashing Procedures to Validate Software Integrity and Functionality.
- Actively collaborate with the team in daily Scrum meetings to ensure efficient Agile project delivery.

**Tools:** G-test framework, Coverity, VS Code: Development environment, WinSCP, e-sys, Anritsu, Tera Term: Flashing binaries for MTK(MediaTek) boards, QFIL: Flashing binaries for QCT(Qualcomm) boards.

## AWARDS CERTIFICATIONS

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High Achiever Award-2024

## LANGUAGES

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**English:** Professional Proficiency.

**Hindi:** Native or Bilingual Proficiency.