

Curriculum vitae

Satish Kumar



Magdeburg, Germany



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Gender Male | **DOB** 12/08/1993 | **Nationality** Indian

Motivated and task-oriented individual with 4 years of experience in Software Development. Skilled in C++, Python, HMI & AUTOSAR. Worked with projects involving automotive software development, HMI development and automation. Possess critical thinking, good communication, interpersonal and relation building skills.

Technical Skills

- C/C++, Python, Shell Scripting, xslt, HTML & Css
- Software / Embedded Software Development
- Object Oriented Programming
- Automation
- AUTOSAR
- Agile, Scrum
- V model, DevOps
- CAN, TCPIP
- Linux, Windows
- Qualification and Integration validation
- Jenkins, Git, Jira, Confluence, Altia, Google-Test, CANOE, DET, INCA, SVN, ECU-Worx, SDOM, Visual Studio, MS Office

Work Experience

Work Student at Luxoft, Germany [11/2021 - 06/2022]

Responsibilities:

- Writing functional tests for Diagnostic service applications based on customer provided software test specification in C++.
- Automation of Test using Google Test framework.
- Deploying executables and performing test on Raspberry Pi
- Aspice artifacts automation.

Achievements:

- Automated the process of Aspice artifacts creation.
- Created quality dashboard for entire process traceability.
- Created test automation using shell script, python and Google Test.
- Created jenkins pipeline and scheduled automation.
- Created xslt file to automatically transform xml to html.

Software Developer at Robert Bosch, India [03/2019 - 02/2020]

Responsibilities:

- Development of embedded software for engine control modules as per customer's requirements based on Autosar architecture
- Development of CAN frames
- ECU Testing
- Hardware in loop testing on INCA

HMI Developer at KPIT Technologies, India [11/2016 - 02/2019]

Responsibilities:

- Developing HMI graphics for Instrument panel cluster in Altia as per customer requirements
- Developing software for controlling transitions of various animations
- Performing traceability and dependence study for impact analysis
- Sub-Modules integration
- Translations generation for various menu structures
- Qualification and Integration validation

Achievements:

- Feature owner for Traffic sign recognition HMI module
- Created complex animations for selectable drive modes
- Automated code generation for warning by parsing requirements file using python
- Created macro tools for comparison and formatting

Projects

- Automotive Software Development for DFCV, Qingling and CNHTC
- HMI software development for Denso and Ford
- Functional STS for diagnostics service application for Volkswagen
- Quality dashboard and ASPICE artifacts automation
- Jenkins server and pipeline setup
- Automatic Portfolio tracker using Excel Power Query and Power BI
- Customer outstanding visualizer using python

Education

- Master's student at Otto von Guericke University Magdeburg, Germany (Ongoing)
- Bachelor of Engineering in Electronics and Communication, VTU, India (2016)

Links

- LeetCode: https://leetcode.com/satish_singhx/
- GitHub: <https://github.com/satishsingh0077>
- Stack Overflow: <https://stackoverflow.com/users/17842249/satish-kumar-singh>

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