Gurpreet Singh

Software Architect - C++ Developer-
EU Blue Card Holder

👤 Profile

Creative, results-oriented software enthusiastic with over 13 years of experience in designing, writing and testing programs in the complex High Tech Embedded, Automotive, Defence & Security software development. Technically proficient in modern C++, Object-oriented Analysis and Design with good holds on Algorithms, Design Patterns and Software Engineering.

💼 Employment History

Software Designer at KPIT Technologies, Munich, Germany
May 2019 — Present

- Hands on experience in C++ 11/14 development, Design Pattern & TDD for automotive feature development in the area of ADAS.
- Developing ACC(Adaptive Cruise Control) ADAS feature, to slow and stop at a traffic light without the driver touching the brake pedal.
- Integrate Map interface with Camera Data to provide crossing information.
- Applied and remained current with existing and emerging C++ language features.
- Experience with Continuous integration systems (Git, Jenkins) processes.

Technical Consultant at GlobalLogic, Noida, India
September 2016 — May 2019

- Design and development of System Monitor Agent using C++ and Design Patterns for local and remote log data collection.
- Implemented Real time File Monitoring feature for monitored files.
- Resolved various performance bottleneck for the product by implementing performance efficient C++ algorithms and solutions.
- Setup Continuous Integration systems (Git, Jenkins) to build software for different *Nix variants.
- Part of Tier IV team, earned lots of appreciations from SIEM end users for providing hot fix on production bugs and resolving technical issues.

Project Lead at RTTS (Real Time Tech Solutions), Noida, India
June 2012 — August 2016

- Design and development of complex embedded systems with C++.
- Provide software libraries, solutions and framework to different teams.
- Developed BDF - Bridge Definition framework to provide a fast and uniform development of various bridge modules.
- Developed Sensor Receiver modules using C++ for various sensors ESM, NC and Sonar sensors using C/C++, DDS and QT.
- Prepared UML diagrams & class diagram to capture system requirement in discussion with customer.
- Coach, guide and mentor new customers to work on DDS.
- Part of sales team to execute POC's for winning new customers.

Details

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Links

LinkedIn

Skills

C++ 11/14

C++ 17

Data Structures & Algorithms

TDD

UML & SysML

GIT, Jenkins, JFrog Artifactory

OOA/OOD & Design patterens

QT ToolKit

GO Lang

IPC, Synchronisation and Multithreading

DDS (Data-Distribution Service), Open Splice Tools

IBM Rational Rhapsody

VxWorks & Wind River Tools

Logrhythm – SIEM

Languages

English

German - Beginner

Technology Analyst at Infosys Technologies Ltd, Chandigarh, India

August 2010 — November 2011

- Developed Parser tool for DowJones to extract data from companies financial results.
- Designed tool architecture and source code with C/C++, prepared tool design document, Use cases, Activity/Sequence diagrams using UML .
- Lead team of 6 people and managed daily task and progress.

Sr. Software Engineer at Sopra India Pvt. Limited, Noida, India

May 2010 — August 2010

- Involved in requirement understanding for Airbus fuel controller module.
- UML Modeling: Use cases, Activity diagram Sequence diagrams and State diagrams to capture functional and non-functional requirements.
- Involved in development of fuel controller with C++.

Software Engineer at Jangoo Tech on contract for WESEE, Ministry of Defence, New Delhi, India

February 2007 — May 2010

- Developed Map application and Categorization software module using C++ & VxWorkrs - API's.
- Done portability of the code from host machine i.e. a Sun -Workstation to target machines running on VxWorks.
- Used Tornado –Tool chain (GDB Crosswind Debugger, Wind View) for code debugging performance/memory monitoring.
- Documentation: User Manual, CDD, Acceptance Test Procedure (ATP) Document

Education

Bachelor of Technology , Electronics & Communication, Kurukshetra University

2001 — 2005

References

References available upon request

Courses

PGDEVD, CDAC, Noida

February 2006 — August 2006