



DEEBAK SUBRAMANIAN

Resides: Mundelheimer Str 25a 47259 Duisburg

Phone: +49 015226178083

Email: subramanian.deebak@gmail.com

LinkedIn: <https://www.linkedin.com/in/deebak-subramanian/>

Work Authorization: Eligible to work in Germany under the Chancenkarte program

KEY SKILLS

Programming Languages & Development Tools
Software Architecture & Design
Network Technologies & Standards
Bug Tracking & Project Management Tools
Cloud & Containerization Technologies
Software Testing & Quality Assurance
Operating Systems
Software Development & Implementation
Problem-Solving & Troubleshooting
Team Leadership & Collaboration
Communication & Languages
Agile Methodologies
Professional Recognition

TECHNICAL SKILLS

Programming Languages: C++17, C, pytest, Ttcn3
Tools: Jenkins, SVN, Git, Gerrit, GDB, UML
Bug Tracking Tool: JIRA, Pronto
Other: 5G NR RAN, ORAN, LTE, 3GPP
Technical specifications, IoT, DSA, HLD, Design Patterns, LLD, Docker, containers, Cloud Virtualization, Agile Methodologies
OS: Linux and Windows

EDUCATION

Master of Science in Software Systems from University of BITS Pilani | 2007-2009

Bachelor of Technology in Electronics and communication from University of VIT University | 2001-2005

PROFILE SNAPSHOT

- Dedicated and detail-centric Software Architect with over a decade of experience specializing in **telecommunications software**, particularly in **Gnb software components for 5G NR RAN, ORAN, LTE, and IoT technologies**. Expertise in **requirement specification, design, and implementation** based on 3GPP specifications.
- Proficient in various **programming languages and tools**, including C++17, pytest, Ttcn3, Jenkins, SVN, Git, Gerrit, and Docker, with a **strong foundation in Linux and Windows operating systems**.
- Well-versed in exhibiting excellence in **evaluating & troubleshooting complex issues** in operator networks, leading to significant **KPI improvements** and **high customer satisfaction**.
- Competent in **developing cloud deployment architectures** for control plane processing software and developed **high availability features** to ensure robust and scalable network infrastructure.
- Recognized as an **efficient leader** in the field with **numerous awards for troubleshooting, programming excellence, and zero-defect feature delivery**, reflecting a commitment to quality and innovation.

EXPERIENCE

Sept 2010 – Till Date | Software Architect | NOKIA, Bangalore, India

- Accountable with the specification, design, and incorporation of Gnb software components, ensuring compliance with 3GPP standards.
- Working with upgradation of Gnb-CU control plane functionalities, covering Handovers, Measurement Configurations, Measurement Report Processing, Admission Control at RAN, and the E2 RIC interface.
- Proficient in recognizing & solving issues within operator networks, including the correction of configuration errors and software defects.
- Executed comprehensive evaluation to identify the underlying causes of KPI deterioration in operator networks and devised effective solutions to address these problems.
- Redesigned components for the efficient cloud deployment of Control plane processing software.
- Partook in the creation and refinement of High Availability features to enhance system reliability.
- Added to the development of a 3GPP standard UE simulator application for testing gNB functionality.
- Incorporated functionalities to contain IoT Devices with reduced capabilities.
- Worked on the development of Per Call Measurement data, MDT tracing, PM counters, and KPIs, aiming to optimize network planning.
- Extensively developed software components using C++17 in a GNU/Linux environment, including conducting Unit tests, module tests, and system component tests with tools like GTest, Python, and Ttcn-3.

Aug 2009-Aug 2010 | Senior Software Engineer | Aricent, Bangalore, India

Jun 2005 – July 2009 | Lead Engineer | HCL Technologies, Chennai, India