**Key Expertise:**

Senior Software Developer with 10+ years of experience in designing, building, and maintaining large scale distributed applications in Grid Control domain and OAM(FCAPS) domain. Expertise in Automatic Generation control(AGC) applications component development (C, C++) ,Websdk and HUD UI (javascript,plsql,QT/QML) and OAM(FCAPS) development. Contributed to solution development in SP7/MGMS products for domestic and international clients including design, requirements analysis, software customization and integration, acceptance testing and issue resolution.

**Experience Summary:**

* Working as Senior engineer in Siemens Technology and Service Pvt ltd from

October 2018 to till date.

* Worked as a Research and Development Engineer (Development) in Nokia Networks, Bangalore from March 2015 to till October 2018
* Worked in LNT Tech services from March 2012 to Feb 2015 as Software Engineer(3 years)

**Work Summary:**

* Experience in MicroGrid control center and Automatic Generation Control(AGC)
* Experience in 5G ,Single RAN and SON feature development, UT, MT, Automation.
* Experience in simulation of external entities and interfaces like BSC,ABIS interface, DSP MTRX interface
* Experience in handling customer bugs and system verification bugs
* Experience in BTS hardware troubleshooting using U-BOOT method and Firmware upgradation.
* Experience in Client Communication and Status Reporting. Worked in high pressure conditions.
* Good written and oral communication skills.

**Certifications:**

* **Kubernetes in Google cloud**
* **Certified SAFe Practitioner**

**Major Skills:**

**C,C++,Python,oracle plsql,sql,TTCN3**

**Minor Skills:**

**QT/QML, Docker, Kubernetes,GCP cloud, javascript,Gatsby,Graphql,REST,Firebase,HTML,CSS**

**Project Details:**

**Project 1:**

|  |  |  |  |
| --- | --- | --- | --- |
| Project Name | Micro Grid management system(MGMS)  [SIEMENS] | Duration | May  2019 to till date |
| Team Size | 12 |
| Description | Involved in mutiple project enhancements related to Automatic Generation Control(AGC) and MGMS UI components (Applications and HeadsUp Display(HUD)) for various customers REMC (SP7), Amprion(SP7),COMED (MGMS), NSGB (MGMS), TERCEIRA (MGMS), San Miguel Apri, Arora from America, Europe & Asia region. | | |
| Role & Contribution | Role:  Developer  Responsibilities:   * Design and Development * Coding and Testing * Feature delivery to end customer | | |
| Technologies | C,C++,oracle plsql,Python,QT/QML,sql Developer | | |
| Tools | Git,Clearcase | | |
| Achievements | .- Appreciation and Star Awards from US counterpart for complete redesign of MGMS Dashboard and from SP7 Indian counterparts for supporting the Mumbai delivery team  - Winner in Designathon event  - Participated in NEXt 47 and PROTON event  - Winner of SPIC 2020 event | | |

**Project 2:**

|  |  |  |  |
| --- | --- | --- | --- |
| Project Name | GIS [[SIEMENS]] | Duration | Dec 2019-Mar 2020 |
| Team Size | 3 |
| Description | Extract dump from vendor GIS system and converting to sql to get imported in GDIM tool | | |
| Role & Contribution | Role:  Developer  Responsibilities:   * Design and Development * Coding and Testing | | |
| Technologies | C,C++,Python,sql,ArcGIS | | |
| Tools | Git,Clearcase | | |

**Project 3:**

|  |  |  |  |
| --- | --- | --- | --- |
| Project Name | Autocad to RDF file convertor [[SIEMENS]] | Duration | Nov 2018-May 2019 |
| Team Size | 3 |
| Description | Autocad file parsed and transformed to XML file in RDF format | | |
| Role & Contribution | Role:  Developer  Responsibilities:   * coding and bug fixing | | |
| Technologies | C,C++ | | |
| Tools | Git,Clearcase | | |

**Project 4:**

|  |  |  |  |
| --- | --- | --- | --- |
| Project Name | 5G cloud OAM [NOKIA NETWORKS] | Duration | Nov-2018 to Oct 2019 |
| Team Size | 12 |
| Description | This project involves development, testing and fixing bugs related to 5G specific OAM features. | | |
| Role & Contribution | Role:  Developer  Responsibilities:   * Refinement of OAM features followed by DLD design, development and testing | | |
| Technologies | C,C++,python | | |
| Tools | Xshell, svn, Element Manager GUI | | |

**Project 5:**

|  |  |  |  |
| --- | --- | --- | --- |
| Project Name | K3 Automation FRAMEWORK [NOKIA NETWORKS] | Duration | AUGUST-2016 to NOV-2017 |
| Team Size | 4 |
| Description | Simulation of external entities and interfaces (BSC,ABIS interface, MTRX DSP interface) using TTCN3,C++ , PYTHON to validate the GSM features in SINGLE RAN architecture | | |
| Role & Contribution | * Design of the BSC, MTRX message structure in TTCN3 * validating the SRAN-GSM behavior by sending the input message to GSM and validating the output message from GSM in K3 framework | | |
| Technologies | TTCN3,C++ | | |
| Tools | GIT,ATOM,SUBLIME | | |
| Key Achievements | Supported all BSC functionalities in the BSC simulator developed in TTCN3 and therefore eliminating the BSC HW dependencies | | |

**Project 6:**

|  |  |  |  |
| --- | --- | --- | --- |
| Project Name | Single RAN-OAM [NOKIA NETWORKS] | Duration | March-2015 to JULY 2016  16 months |
| Team Size | 20 |
| Description | This project involves development, testing and fixing bugs related to GSM specific OAM features. | | |
| Role & Contribution | Role:  Developing, Testing, Automation(Robot framework)  Responsibilities:   * Refinement of OAM features followed by DLD design, development and testing * Fixing system verification bugs and customer bugs * Automating the testcases for different version of BTS using ROBOT framework (SMOKE TEST,FEATURE TEST and CI) | | |
| Technologies | C,C++,python | | |
| Tools | Xshell, svn, EMS GUI | | |
| Key Achievements | 1.Fixed the blocker issues on time during customer delivery  2.Developed new automation scripts for new HW platforms(BTS,RFM) which helped in stability of the SW running in new HW | | |

**Project 7:**

|  |  |  |  |
| --- | --- | --- | --- |
| Project Name | SRAN -OAM system[LNT-Client SAMSUNG] | Duration | Nov-2012 to Feb 2015 |
| Team Size | 8 |
| Description | OAM system takes care of loading and maintaining all applications running in Network entity (BSC/RNC/MBS).  Software Management [SWM] module which is a part of OAM, which takes care of Installation, Up gradation, Resetting, Rebooting, Monitoring, Activating of Firmware & Software’s and Provides Inventory Information of the system. | | |
| Role & Contribution | Role:  Developer, Tester  Responsibilities:   * Designing of High Level & Detail Level Document for SWM module. * Coding for SWM Module. * Unit testing using Google Test for SWM. * Test Case preparation and Block test using CLI, WEBEMT & EMS tool. * Maintenance and Enhancement of the SWM module. * Automating the BT test cases using python and XML scripts | | |
| Technologies | C,c++,sql,python | | |
| Tools | Xshell, clear case, EMS GUI | | |
| Key Achievements | 1. Awarded start of the month award for fixing critical bugs and automating the BT cases 2. Instrumental in resolving NE loading issues, NE pkg update and supporting other teams to make setup fully functional. | | |

**Project 8:**

|  |  |  |  |
| --- | --- | --- | --- |
| Project Name | Single RAN-OAM system[LNT -client SAMSUNG] | Duration | March-2012 to October 2012  8 months |
| Team Size | 4 |
| Description | This project involves development, testing and maintaining of the GSM specific OAM features. I was involved in the software management module (SWM) of the OAM. SWM takes care of the loading, monitoring, rebooting and other software related activities. | | |
| Role & Contribution | Role:  Developer, Tester  Responsibilities:   * Designing of High Level & Detail Level Document for SWM module. * Coding for SWM Module. * Unit testing using Google Test for SWM. * Test Case preparation and Block test using CLI, WEBEMT & EMS tool. * Maintenance and Enhancement of the SWM module. * Automating the BT test cases using python and XML scripts | | |
| Technologies | C,C++,python,XML | | |
| Tools | Xshell, clear case, EMS GUI | | |
| Key Achievements | 1. Managed to communicate and work with Korean client in a short span of time.  2. Enhanced python scripts and XML scripts to automate testing process.  3. Found and fixed the critical bugs while doing UT and BT.  4. Enhanced SWM features  5. Resolved NE loading issues by debugging it.  6. Updated the FW through UBOOT method when system is down to make it up.  7. Got appreciation from client while resolving critical bugs.  8. Got appreciation from Manager for automating the BT cases,resolving NE loading issues and also for supporting call, System Integration, System Verification teams regarding NE setup and NE loading issues. | | |

**Educational Qualification & Certifications:**

|  |  |
| --- | --- |
| B.E | Electronics and communication, Completed in 2011(80%) |

**Contact:**

[eshamohideen1210@gmail.com](mailto:eshamohideen@yahoo.com)/ +91-8050115233