**Bhushan
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Job Title: Embedded

Summary

- Total 5 Year experience, currently working with Tata Elxsi, FICOSA Spain. N.I.E is Y05508698M and currently staying in Pune. Completed CDAC in Embedded System. Programming Languages : C , Assembly, Python. Operating System Concepts : Windows and Linux , RTOS Xenomai , Kernel Compiling. ARM Linux GCC Toolchain Legato framework (Ubuntu 16.04). Debugging tools : Gdb, Valgrind, Multidebugger. Device Driver Specific : Windows Device Driver (WDD), Linux Character Device Driver Tools used : EDI, EA, Polyspace, Doors. Experience on AUTOSAR Architecture. Experience of working on AUTOSAR Application layer. Well acquainted with all stages of Software development Life Cycle (V-Model) Requirement gathering, FSM designing, coding/debugging, testing, documentation, maintenance and enhancement.(MIL, HIL, SIL) Experience in development of Telematics services. Experience in ASIL-A safety related activity. Compilers : IDE MULTI and GHS, TDA Protocol : CAN, End user of UDS. Hands on configuration management tools SVN, GIT, JIRA, Jenkins, RTC Also experience on ODX, Renesas E1 emulator, TDA code flashing.

Personal Details

Date of birth: 17-05-1987   **Passport No.:** H7458632   **Total Experience:** 5.0 yrs

Educational Details

- SSC - 10th with 72.26% from Pandit Bhachraj Vyas Vidyalay, State Board of Maharashtra (2002 - 2003)
- HSC - 12th with 71.67% from New English High School, State Board of Maharashtra (2004 - 2005)
- Graduate with 67.58% from Karmaveer Dadasaheb Kannamvar college of Engeenering, Rashtrasant Tukadoji Maharaj Nagpur University (2005 - 2009)
- Post Graduate with 71.2% from YCCE Autonomous aaflited, Rashtrasant Tukadoji Maharaj Nagpur University (2010 - 2012)

Other Achievements

- International paper present at Pondicherry -2012.
- National paper presentation at SVSS -2011.
- Participated in the 'National Level Paper & Project Competition' 2009 held under SPARK.
- Runner-up in Microprocessor simulation in PRAYAS 2007.

Technical Skills

- Assembly, Python.
- Windows and Linux , RTOS Xenomai , Kernel Compiling. ARM Linux GCC Toolchain Legato framework (Ubuntu 16.04).
- Gdb, Valgrind, Multidebugger.
- Windows Device Driver (WDD), Linux Character Device Driver
- EDI, EA, Polyspace, Doors.

Industrial Experience

Project Title: Windows Device Driver debugger

Company Name: Persistent System Ltd

Role: Software Engineer

Languages Used:

- Embedded C

Tools Used:

- EDI
- EA
- Polyspace
- Doors.

Project Description:

- To get a complete workflow of a Bus and Device Drivers in Windows we have analyzed the virtual device driver code by debugging intensively using Windbg. Gone through the entire code of Toaster Bus and Device Drivers and did a step by step execution to understand the flow of IRP's and functionalities of the Device Driver and Bus Driver.

Project Title: Linux Device Driver

Company Name: Persistent System Ltd

Role: Software Engineer

Languages Used:

- Embedded C

Tools Used:

- EDI
- EA
- Polyspace
- Doors.

Project Description:

- Working on C language, Opensuse Linux Operating System, Linux Character Device Driver. Kernel compilation, Check the functionality of serial port device driver. Implement the ioctl function in serial device driver to check the status of receiving data in between the read process. Also compile the kernel and check the functionality of serial device driver.

Project Title: C and Open stack Developer

Company Name: Persistent System Ltd

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MAHARASHTRA INDIA 440025

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✉ hr@syslogyx.com

⊕ www.syslogyx.com

Role: Software Engineer

Languages Used:

- Embedded C

Tools Used:

- EDI
- EA
- Polyspace
- Doors.

Project Description:

- Port the Application on ppc64le, Fixed Launchpad Issue. Worked on technology, Dockerizatio, Jenkins, Ubuntu 15.04, Red hat, Power PC ppc64le, Intel-X86 64 bit processor. Porting application like varnish-cache, MariaDb . Also fix the code issues with respect to little Indian and Big Indian also understand the end to end flow and debugging openstack glance code on glance-client as well as glance component side. Protect Glance repository from uploading any non os image from CLI and Horizon.

Project Title: Python Application Developer

Company Name: TataElxsi (FICOSA)

Role: Software Engineer

Languages Used:

- Embedded C

Tools Used:

- EDI
- EA
- Polyspace
- Doors.

Project Description:

- Create a single dbc file from multiple dbc files Take input as multiple input dbc files, generation node, transmitting offset, message periods, size and several command line parameter for python script and create output dbc on basic of several filter like Intel or Motorola message type, periodic message also merge multiple messages and packed all signal within smallest DLC

Project Title: Automotive Domain /Telematics.

Company Name: TataElxsi (FICOSA)

Role: Software Engineer

Languages Used:

- Embedded C

Tools Used:

- EDI
- EA
- Polyspace
- Doors.

Project Description:

- Working in Linux, Telematics environment for application development. Writing System, Software requirement developing and testing Services on Legato framework (Ubuntu 16.04). Writing System and software requirement, Developing Crash, Warning lamp services on Telematics (legato platform.) While

writing requirement understand the client requirement and frame it and create document in DOORS. Understand the complete flow of service and develop the code in C language to implement the functionality. Write the test cases for developed code, also run polyspace.

Project Title: Automotive Domain /ADAS.
Company Name: TataElxsi (FICOSA)
Role: Software Engineer
Languages Used:

* Embedded C

Tools Used:

* EDI
* EA
* Polyspace
* Doors.

Project Description:

* Testing ASIL component in AUDI CMS project. Worked on RH850 Renesas and TDA controller. Worked on robustness testing, software testing for ASIL component like UTS mode, Program flow monitoring test, and TDA modules like Automatic online calibration, soil detection. Worked on Vehicle testing also using OBD connector. Worked on testing XCP, CAN signal and testrunner tool, also Multi debugger. Write the automated test cases for Renesas and TDA modules

Hobbies

* Drawing , Poetry, Playing guitar, Four wheeler Driving.