**Ankit Shukla +91 9689135919**

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**Summary:**

* 10 years of experience in C, C++ on LINUX/WINDOWS/WINCE/QNX based embedded Development.
* Experience in developing automation tool using python(tkinter).
* Experience in Design Patterns (Singleton, Factory Pattern and Adapter), STL containers, algorithms, and iterators.
* Experience in socket programming, Multithreading, Inter Process Communication, Synchronization and Linux Systems Programming.
* Experience in development tools/IDE (Visual Studio2010/2013, qnx momentics, and QT, SVN).
* Experience in developing Wince Device Drivers and Linux Device drivers.
* Good knowledge on Debugging using GDB, Remote debugging, Kernel Debugging, Performance debugging
* Good Exposure on Linux kernel internals and Wince architecture and Linux Graphics stack.
* Good knowledge of Software Development Life Cycle and designing project on requirement.
* Good understanding of design principles (SOLID principles)
* Platforms used: X86, ARM (Includes GPU and CPU)

**Skills and Tools:**

* **Programming/Scripting Languages**: C, C++, C++11, Python, Shell Scripting, Makefile
* **Version Control Tools**: SVN, Git, RTC
* **Requirement management tools:** IBMRational Doors
* **Debugging Tools**: gdb, Trace32, Lauterbach, Debugging using Visual studio.
* **Design Tool**: IBM Rhapsody
* **Unit Testing**: VectorCast
* **Operating System**: Linux (Ubuntu, Kali-Linux, OpenSUSE), WinCE7, LynxOS, Windows
* **IDE**: Visual Studio, QDE, QT, Eclipse
* **Standard data interchange formats**: JSON, XML
* **Design Patterns:** Singleton, Factory, Adapter, and builder
* **Data Structure and Algorithm**: Array, String, LinkedList, Stack, Queue, Binary Search tree, Hash
* **OS Concepts**: Process Management, Memory Management, Virtual file system,

Multithreading, IPCs and synchronization mechanism.

* Agile/Scrum
* Socket programming, Cross platform product development

## **Employment Summary:**

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| **Duration** | **Employer** |
| March 2019 – Till date | Siemens Technology and services pvt. ltd, Pune |
| June 2015 – March 2019 | Tata Elxsi ltd, Pune |
| August 2014- June 2015 | Infosys ltd, Hyderabad |
| August 2011- August 2014 | Rockwell Collins India, pvt. Ltd, Hyderabad |

## **Certifications**: P.G Diplomain System software from CDAC, Pune

**Project Summary:**

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| **Project #** | **1** |
| **Project Name** | RBC (Radio block center) |
| **Team Size** | 6 |
| **Period (Duration)** | 2.5 years |
| **Client** | Siemens Spain |
| **Work Location** | Pune, India |
| **Domain** | Mobility |
| **Language** | C, C++, python |
| **Operating System** | Windows7 |
| **Tools and compiler** | g++ |
| **Project Description** | RBC module communicates with the Train system. It receives the position report from Train system. Position is read through Balise device fit into Train system. once the connection is established between train system and RBC, it provides the movement authority to ensure the safety. |
| **Responsibilities** | * Develop new features after requirement analysis. * Participate in code reviews. * Analyze the logs and do bug fixing. * Work on Unit testing using VectorCast tool. * Perform static code analysis. * Lead the team of 6 members and resolve technical issues. * Release the billing for every month. |

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| **Project #** | **2** |
| **Project Name** | GM Instrument cluster |
| **Team Size** | 6 |
| **Period (Duration)** | 2 months |
| **Client** | Visteon Sofia |
| **Work Location** | Pune, India |
| **Domain** | Automotive |
| **Language** | C, C++ |
| **Operating System** | QNX, Windows7 |
| **Tools and compiler** | Qcc, g++, gcc |
| **Project Description** | IC project involves processing data from Vehicle processing and sends required data to UI controller. UI controller maps sent data with corresponding UI widgets and required data is shown on cluster. It basically shows the critical data like Tire pressure, fuel data, Tire temperature, tachometer, speedometer data. |
| **Responsibilities** | 1) Understand the requirements and perform high level and low-level system design.  2) Develop the new features from the given requirements.  3) Perform unit testing using Gmock and Gtest.  4) Work on static code analysis.  5) Work on Unit Testing using VectorCast tool.  6) Participate in code reviews. |

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| **Project #** | **3** | |
| **Project Name** | AppLink | |
| **Team Size** | 6 | |
| **Period (Duration)** | 3 years, 2 months | |
| **Client** | Panasonic Automotive | |
| **Work Location** | Pune, India | |
| **Domain** | Automotive | |
| **Language** | C, C++ | |
| **Hardware** | ECUs(Electronic control unit) | |
| **Design Pattern** | Singleton | |
| **Operating System** | QNX, Windows7 | |
| **Tools and compiler** | Qcc, g++, gcc | |
| **Project Description** | App link provides facility to connect your smart phone into infotainment system. It communicates with several modules which are responsible to boot the system and then Applink involves user interaction to take voice commands and UI touch-based input. It provides embedded navigation system as well. | |
| **Responsibilities** | 1. 1) Understand the requirements and prepare the design document. 2. 2) Develop the new features from the given requirements. 3. 3) Participate in code reviews. 4. 4) Analyze the bugs from the logs and do bug fixing.   5) Analyze the core dump.  6) Perform unit testing using Gmock and Gtest.  7) Work on static code analysis. | |
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| **Project #** | **4** | |
| **Project Name** | Wince OpenGL call stack porting and Graphics driver development on WinCE platform | |
| **Team Size** | 4 | |
| **Period (Duration)** | **1 year** | |
| **Client** | AMD | |
| **Work Location** | Hyderabad, India | |
| **Domain** | Graphics and multimedia | |
| **Language** | C, C++ | |
| **Hardware** | Ontario board, Kabini board, Mullins Board | |
| **Operating System** | Wince 7.0, Ubuntu 13.10**,** Wince 13 | |
| **Tools and compiler** | Visual studio, SVN, Super tool, GCC**,** qt4.8, Makefile | |
| **Project Description** | Porting Linux graphics stack to WinCE platform and work on Radeon GFX graphics driver to provide the software and hardware rendering mechanism to speed up the performance of driver for videos and gaming platform. | |
| **Responsibilities** | | * Port LLVM OpenGL library for WinCE * Work on development of Graphics driver * Work on defect fixing and driver performance improvement activity. * Work on DRM subsystem and Linux graphics stack porting for wince platform. * Develop graphics application using opengl. |
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| **Project #** | | **5** |
| **Project Name** | | Onboard maintenance system |
| **Team Size** | | 20 |
| **Period (Duration)** | | 3 years |
| **Client** | | Rockwell Collins, US |
| **Work Location** | | Hyderabad, India |
| **Domain** | | Avionics |
| **Language** | | C, C++, Python, Shell scripting |
| **Hardware** | | ARM7 |
| **Operating System** | | LynxOS (Target), Windows (host environment) |
| **Tools** | | Visual studio, SVN, Doors, Clear quest, PREP, Makefile, Sqlite3, Lauterbach Trace32 |
| **Project Description** | | OMS is a subsystem which includes several applications, and it is responsible to communicate with the LRU (which resides in Aircraft) using ARINC protocols. It provides maintenance data (air indicator, fuel indicator, wires configuration) to Pilot and maintenance people on the request. It communicates to LRU through Ethernet medium and OMS applications communicate using XML RPC calls internally. |
| **Responsibilities** | | 1. 1) Understand the requirements and discuss with partners. 2. 2) Develop the new features from the given requirements for  * Diagnostic Report Application (DRA) * Display Manager Application (DMA)  1. 3) Perform functional and Unit Testing. 2. 4) Work on bug fixing. |

**Academic Summary:**

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| **Course** | **Institution/University** | **Year** | **Marks** |
| B. Tech | UPTU | 2010 | 74% |
| Intermediate | U.P. Board | 2005 | 71% |
| High School | U.P. Board | 2003 | 69% |

**Personal Data:**

Name : Ankit Shukla

Father’s Name : H.S. Shukla

Date of Birth : 22-Jun-1988

Languages known : English and Hindi