Ankit Shukla

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Summary:

- 10 years of experience in C, C++ on LINUX/WINDOWS/WINCE/QNX based embedded Development.
- Experience in Design Patterns (Singleton, Factory Pattern and Adapter), STL algorithms, containers, and iterators.
- Experience in socket programming, Multithreading, Inter Process Communication, 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
- Version Control Tools: SVN, Git, Makefiles, RTC
- **Debugging Tools**: gdb, Debugging through 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:

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 Diploma in System software from CDAC, Pune

Project Summary:

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Project #			
Project Name	RBC (Radio block center)		
Team Size	6		
Period (Duration)	2.5 years		
Client	Siemens Spain		
Work Location	Pune, India		
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			
	Worked on development.		
	Worked on bug fixing.		
	Worked on Unit testing for developed module.		
	Performed static code analysis.		
	 Leading the team of 6 members. 		
	Released the billing for every month.		

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Project #	
Project Name	GM Instrument cluster

Team Size	6	
Period (Duration)	2 months	
Client	Visteon Sofia	
Work Location	Pune, India	
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	 Analyze the requirement for new features and do the low level and high-level design. Implement the new feature and perform Unit testing to ensure code coverage. 	

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Project #		
Project Name	AppLink	
Team Size	6	
Period (Duration)	3 years, 2 months	
Client	Panasonic Automotive	
Work Location	Pune, India	
Language	C, C++	
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		
		Analyze the bugs from the logs and fix the issues.
		Develop new features in c++ on qnx platform.
	•	Worked on design changes for new features.

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Project #			
Project Name	Wince OpenGL call stack (Graphics driver development on		
	WinCE plateform)		
Team Size	4		
Period (Duration)	1 year		
Client	AMD		
Work Location	Hyderabad, India		
Language	C, C++		
Operating System	Wince 7.0, Ubuntu 13.10, Wince 13		
Tools and compiler	Visual studio, SVN, Super tool, gcc, qt4.8, Makefile		
Project Description	Developed OpenGL call stack on WinCE platform. The OpenGL		
	dependencies available on Linux was ported for WinCE		
	platform. It provides the software and hardware acceleration		
	and renders the frames per second.		
Responsibilities	Ported LLVM OpenGL library for WinCE		
	 Worked on development of Graphics driver 		
	 Worked on defect fixing and driver performance 		
	improvement activity.		
	 Worked on DRM subsystem and Linux graphics 		
	stack porting for wince platform.		
	 Application development for OpenGL. 		

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Project #	
Project Name	Onboard maintenance system
Team Size	20
Period (Duration)	3 years
Client	Rockwell Collins, US
Work Location	Hyderabad, India
Language	C, C++, Python, Shell scripting and Sqlite3
Design pattern	Factory design pattern
Operating System	LynxOS, Windows

Tools	Visual studio, SVN, Doors, Clear quest, PREP, Makefile		
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	Worked on new features of the below apps:		
	Diagnostic Report Application (DRA)		
	Display Manager Application (DMA)		
	Creating functional specification document.		
	Unit testing of code.		

Academic Summary:

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