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EDUCATION

• Sri Jayachamarajendra College of Engineering

Bachelor of Engineering in Electronics and Communications

Mysore, India Aug. 2002 - July. 2006

Programming Skills

• Languages: C++, Python, C, bash

• Platforms: Linux(Windriver, Ubuntu), Unix(HP-UX, AIX, Solaris)

Tools: CMake, GNUMake, gdb

Testing Frameworks: Squish, GoogleTest, Cucumber

• Protocols: CAN (Vehicle bus standard), FIX(Financial Information eXchange)

Methodologies: Agile, Test Driven Development (TDD),

Experience

• John Deere Des Moines, IA

Senior Software Engineer

June 2012 - Present

- Gen4 CommandCenter™ Displays: Develop software for displays of family of Autotrack guidance agriculture machines (like tractors) which farmers use for Precision Agriculture.
- Defects Triaging: Initial triaging/analyzing of defects that are logged by farm testers to be assigned to right team. This needs a robust knowledge of the entire system and involves a lot of communication with various teams.
- Reprogramming Firmware: Develop Reprogramming module which deals with installation and updates of Gen4 CommandCenter TM Display.

Environment/Tools: C++, Python, Qt/QtCreatorIDE, bash, Multithreading, Agile, mercurial, git, CAN-protocol, sqlite-db, TestDrivenDevelopment(TDD), gtest, Squish(UI-Testing), Cucumber, gperf, VTune, valgrind, yum(package manager)

• Bloomberg

Manhattan, NY

- Apr 2011 May 2012 Software Engineer o STEP (Add-on software for OrderManagementSystem): Develop STEP Software which integrates with the
 - various OMS products available in the market that helps traders to automate sending IOIs (Indication of interest) and ADVs(Advertisement) without human intervention. Tool to test STEP: Developed a test tool which will inject Orders that otherwise would have been sent by the
 - associated OMS. This tool would generate all possible fix messages(like NewOrder/FilledOrder/PartialFill/ Cancel/ Replace) which was extensively used to test the main product (STEP) which we were developing.

Environment/Tools: C++, JavaScript, Unix(AIX, HP-UX, Solaris), RAPID(UI development framework), SQL, ComDB, STL, FIX-protocol, Service orientied architecture, XML, Multithreading (IPC), OOP, svn.

Toshiba

Bangalore, India

Aug 2006 - Feb 2011

Software Developer

- Printer Firmware: Develop firmware for Toshiba's vast range of Multi Functional Peripherals (MFPs) in C++ and WindriverLinux.
- o Onsite Coordinator: Was an active part of architecture team at client location and communicated the requirements to offshore team. (Was in this role for about an year.)
- o Integration: Integration of all three layers at the client location (Toshiba, Japan) by coordinating with all the teams.
- MFPUtility Libraries: Develop algorithms/libraries specific to printers (like Magnification%, Drawer selection, ExitTray selection, Staple/Duplex judgment.

Environment/Tools: C++, Linux IPCs, Multithreading, Windriver Linux, PowerPC, bash scripting, PVCS(version control), sqlite-db, awk, sed, valgrind

• Mindtree

Bangalore, India

Internship Project

Dec 2005 - Mar 2006

• CVSD encode/decoder: Develop a MATLAB model for CVSD encoder/decoder (which is an Audio CODEC) as per Bluetooth CVSD specification and do the performance analysis to find the best parameters.