

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 the 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 the right team. This needs a robust knowledge of the entire system and involves a lot of communication with various teams.
 - **Reprogramming Firmware:** Develop a Reprogramming module which deals with installation and updates of Gen4 CommandCenter™ 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
Software Engineer Apr 2011 - May 2012
 - **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.
 - **A tool to test STEP:** Developed a test tool that 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 were 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
Software Developer Aug 2006 - Feb 2011
 - **Printer Firmware:** Develop firmware for Toshiba's vast range of Multi-Functional Peripherals(MFPs) in C++ and WindriverLinux.
 - **Onsite Coordinator:** Was an active part of the architecture team at client location and communicated the requirements to the offshore team. (Was in this role for about a year.)
 - **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.