

EDUCATION

- **Sri Jayachamarajendra College of Engineering**
Bachelor of Engineering in Electronics and Communications

Mysore, India
Aug. 2002 – July. 2006

SKILLS

- **Languages:** C++, python, 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)
- **Others:** Test Driven Development, Agile, Multithreading, Qt, Mercurial, Git, sqlite, ComDB, Linux IPCs, awk, sed, valgrind, gperf, valgrind

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/analysing 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:** Designed and developed Reprogramming module for embedded display which deals with installation and updates of Gen4 CommandCenter Display.

Environment: C++, Qt/QtCreatorIDE, python, bash, Agile, mercurial, git, CAN-protocol, sqlite-db, TestDrivenDevelopment(TDD), gtest, Squish(UI-Testing), Cucumber, gperf, valgrind
- **Bloomberg** Manhattan, NY
Software Engineer *Apr 2011 - May 2012*
 - **STEP (Add on software for OrderManagementSystem):** Service for sending email, push and in-app notifications. Involved in features such as delivery time optimization, tracking, queuing and A/B testing. Built an internal app to run batch campaigns for marketing etc.
 - **Tool to test STEP:** Bulk data processing and injection service from Hadoop to Cassandra and provides a thin REST layer on top for serving offline computed data online.

Environment: C++, JavaScript, Unix(AIX, HP-UX, Solaris), RAPID(UI development framework), SQL, STL, FIX-protocol, Service oriented 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 Function Peripherals(MFPs) in C++and WindriverLinux.
 - **Onsite Coordinator:** Get involved with architecture team at client location and communicate the requirements to offshore team. Was in this role for about an 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: C++, Linux IPCs, Multi-threading, 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 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.