

## EDUCATION

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

Mysore, India  
Aug. 2002 – July. 2006

## PROGRAMMING SKILLS

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- **Languages:** C++, 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)

## EXPERIENCE

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- **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:** Develop Reprogramming module which deals with installation and updates of Gen4 CommandCenter™ Display.

**Environment/Tools:** C++, Qt/QtCreatorIDE, python, bash, Multithreading, Agile, mercurial, git, CAN-protocol, sqlite-db, TestDrivenDevelopment(TDD), gtest, Squish(UI-Testing), Cucumber, gperf, 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 from 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 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/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.