Naveen Gara

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EDUCATION

- **Sri Jayachamarajendra College of Engineering** — Mysore, India
  Bachelor of Engineering in Electronics and Communications — *Aug. 2002 – July. 2006*

SKILLS

- **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)
- **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$^{\text{TM}}$ Displays**: Develop software for displays of family of Autotrack guidance agriculture machines (like tractors) which farmers use for Presicion 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, sqlite3-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 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 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, sqlite3 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.