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*

PROGRAMMING 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)
- **Methodologies**: Agile, Test Driven Development (TDD),

EXPERIENCE

- **Opel Systems Inc. (Client : John Deere)** — Des Moines, IA
  Senior Software Engineer — *June 2012 - Present*
    - **Gen4 CommandCenter^{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**: Develop Reprogramming module which deals with installation and updates of Gen4 CommandCenter^{TM} 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)

- **Opel Systems Inc. (Client : 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 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**: 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.