

MAXIN B. JOHN**E-mail:** maxinbjohn@gmail.com**Mobile:** +358504839011**Career Objective:**

To build a career as a computer programmer and secure a challenging position where I can effectively contribute my skills.

Career Profile:

For **Nokia** (From Jan 2011 – Till now)

For **Sasken Communication Technologies Ltd** (From Jan 2010 – Dec 2010)

For **Sony** (From June 2008 – Dec 2009)

For **Accel Transmatics Ltd** (Ushustech Division) (From January 2007 – June 2008)

For **HCL Infosystems** (From March 2005 – January 2007)

Name	Maxin B. John
Email	maxin@maxinbjohn.info
Experience Summary	6 Years

PROFICIENCY	
Operating Systems	Good fundamental and practical implementation level knowledge in Linux Kernel Internals. Development of Linux Kernel Modules. In depth practical application development knowledge in Linux IPC and Multi Threaded Application. Experience in Sony CE Linux, MontaVista Linux and Android Embedded Linux distributions
Languages	C, Python , Bash, ARM assembly
Device Drivers	Linux Device Drivers and Console device driver framework
Tools	ARM/MIPS/PowerPC/i386 Toolchain, rpm, git, quilt, cvs, svn, Excellent Debugging knowledge using GDB and SystemTap. Used Make utility to write complex Makefiles. Good knowledge of Kernel Patching and Kernel 2.4 and 2.6 cross-compilations for

	ARM/MIPS/PPC/i386 Linux platforms.
Editors	VIM, Lyx
Exposure to	FreeBSD , Qemu, SystemTap, Kprobes, RTLinux, PyGTK, Hudson, OpenGrok
Contributions to Free Software Projects	<ol style="list-style-type: none"> 1. Linux Kernel 2. Linux Kernel Man Pages 3. Linux Test Project 4. Git 5. KDE

PROFESSIONAL SUMMARY

Work Experience

- Excellent C programming skills. Good implementation knowledge in data structures.
- Good experience in Configuration and Administration of servers running different flavors of Linux (Debian/Fedora/CentOS/Ubuntu/Open Suse)
- Good understanding of Linux console and gpio device driver framework.
- Good experience in developing and integrating multi-threaded software on development boards such as TX49, Ebony, EDB9301, Armadillo 9, SMDK 2410, Motorola EZX, OMAP5912 , QCT MSM7x27 and running Linux kernel and User land.
- Experience in writing Linux Device drivers for embedded platforms
- Good implementation knowledge in Linux User Space and Linux Kernel space IPC
- Good knowledge in package management using RPM and DEB
- Experienced in the role of configuration controller for projects using Git, Subversion and CVS
- Did mentoring for the newly recruited. Mentoring included giving technical presentations on Linux Kernel Programming (introductory and advanced)
- Good knowledge in ARM processor architecture and experience in optimizing system software.
- Experience in continuous Integration using Hudson

Following are the projects in which I have an Active role:

- 1 Project : **Meego**
Duration : 3 Months
Technology : C, Linux, GNU Tool Chain, Scratchbox, PowerTOP
Location : Helsinki
Team Size : 4

Description:

The Meego project involves in the development of a Linux Based Operating System for Mobile Devices.

Responsibilities:

- Kernel compilation and optimization
- Kernel API verification
- Porting of various User land applications to Meego Platform

2 Project	:	Odyssey Phase II
Duration	:	6 Months
Technology	:	C, Linux, ARM Assembly, GNU Tool Chain (ARM),Redboot , Kernel Configuration for embedded systems, Kernel Kconfig and Makefiles, UART Device Driver, Board Bring up, GDB Remote Debugging, JTAG
Location	:	Japan
Team Size	:	8

Description:

The Odyssey project deals with the BSP and embedded client software development of the dual ARM Processor based Toshiba G2. The Development board contains Cirrus Logic's EP9301 (ARM 920T) based Baseband Side for Basic Mobile functioning and Toshiba's G2 (ARM1176JZF-S) based G2 side for execution of mobile games.

The final product is a development system for game developers to seamlessly port or develop and run content on the Development Board. The embedded client software is a complete, pre-integrated and tested environment required by a handset OEM for the execution of mobile games.

Responsibilities:

- Kernel compilation and customization which includes development and integration of BSP.
- Tool chain (GNU ARM Tool chain) and initrd creation for both Baseband Side and G2 Side of the development board using Buildroot.
- Serial port interface development for the ARM1176JZF-S based G2 side of Dual processor board.
- Develop inter-modular communication API's using Message Passing and Multi-Threaded Programming, Synchronization techniques, since the project involved interaction between multiple modules.
- Porting of various User land applications for the EP9301 and G2 Side

3 Project : **Android Core Platform Verification**

Duration : Jan, 2010 – Till now
Technology : C, Linux, Kernel Configuration for embedded systems, Android Tool Chain & SDK, git, oprofile, bonnie++, hudson, Bash Scripting
Work Location : Sasken Communication Technologies Ltd, Chennai
Team Size : 4

Description:

Platform Verification and debugging of Android handsets at Kernel, library and application level for of a Tier one European client.

The project involves

- Development of USB device driver at Host side.
- Porting of Linux Test Project to Android platform
- Execution of LTP on Android handset & Performing the failure analysis
- Integrating LTP execution with Hudson
- Profiling using Oprofile
- Benchmarking Android handsets performance using Bonnie++

Responsibilities:

- Team Lead
- Performing code reviews using Gerrit
- Interacting with the clients
- Documentation

4 Project : **Sony CE Linux Distribution Development**

Duration : June, 2008 – Dec, 2009
Technology : C, Linux, GNU Toolchain(ARM/MIPS/PPC/i686), RPM, Kernel Configuration for embedded systems, GDB, uboot, redboot, git, svn, quilt, Bash Scripting
Location : Sony India Software Center
Team Size : 5

Description:

The objective of the project is to develop and maintain the Sony CE Linux. This embedded Linux Distribution is used in Sony's various consumer electronic products. Sony CE Linux distribution is available for ARM, MIPS, PPC and i686 platforms. The Objectives of this project are:

- Develop and integrate the CE Linux Kernel, Toolchain and Userland packages for various product teams
- Prepare and maintain new packages by building RPMS for the ARM/MIPS/PPC/i686 version of Sony CE Linux
- Co-ordinating with the on-site team for ensuring the quality and prompt release of Sony CE Linux
- Worked in Japan along with the Sony, Japan team to debug and analyze certain issues in Sony CE Linux
- Preparing the schedules and dividing the tasks among the team members
- Manage the wiki page updates, ticket management in trac and bug tracking using bugzilla
- Debug the Sony CE Linux Kernel/Library/Userland

Responsibilities:

- Team Lead
- CE Linux Maintenance and Security Fix
- Interacting with the clients for various project requirements
- Debug the CE Linux applications and share the fix with the community
- Documentation

- 5 Project : **SystemTap GUI integration with Sony CE Linux**
 Duration : 1 Months
 Technology : CE Linux Toolchains(ARM/MIPS/x89), Cross GDB, Eclipse
 Location : Sony India Software Center
 Team Size : 2

Description:

The objective of the project is to develop an Integrated GUI for CE Linux Toolchains and provide a unified platform for debugging CE Linux Kernel and Kernel using Userland using SystemTap and GDB.

- Integrating cross-gdb and Sony CE Linux Toolchain with Eclipse CDT
- Eclipse Plug-in Development for integrating different Cross Toolchains
- Integrate and manage the remote target boards using Remote System Explorer
- SystemTap GUI integration with target boards

Responsibilities:

- Eclipse plug-in development, CE Linux Toolchain, GDB and SystemTap integration with Eclipse
- Documentation

- 6 Project : **Gaming Platform Development**
 Duration : 4 Months
 Technology : C, Linux, ARM Assembly, GNU Tool Chain (ARM), Kernel Configuration for embedded systems, Cross Compilers, GDB, Eclipse CDT , Subversion
 Work Location : Ushus Technologies, Thiruvananthapuram
 Team Size : 6

Description:

The objective of the project was to develop a Gaming Platform based on Linux 2.6.12.x kernel. The Objectives of this project were:

- Customizing and making a stable version of Linux 2.6.12x kernel running on Armadillo 9 board, taking the release of Linux 2.6.12x releases from Armadillo site. This includes testing the stability of the release version of the kernel and associated drivers and making the required modification to make the kernel stable.
- Building of cross compiling tool chain using uClibc for Armadillo 9 board
- Support of Busybox command set
- Development of IDE based GCC cross compilation and debugging tools for ARM-Linux application build.
- Configuration controller of the project. Managed the Subversion and the Build and Release process of the project

Responsibilities:

- Design and Development
- Documentation

7 Project : **HCL NAS**
Duration : 5 Months
Technology : Python, PHP, Bash Scripting , CVS, Linux
Work Location : HCL R&D , Pondicherry
Team Size : 5

Description:

The HCL NAS project will allow the administration of a storage server through a web interface and allow the users to manage their quotas and shares. It will be distributed as an installable Linux distribution .The anaconda program was customized to suit the special requirements of HCL NAS.

Responsibilities:

- Design and Development
- Anaconda customization
- Documentation

8 Project : **HCL Multi - Terminal PC**
Duration : 6 months
Technology : C, Linux Kernel Programming, GDB, CVS, Bash Scripting
Work : HCL R&D, Pondicherry
Location
Team Size : 6

Description: The HCL Multi Terminal PC will allow multiple independent local X users in a system. Using this, a single PC can be used as multiple independent PCs and different users can perform different tasks in different consoles.

Responsibilities:

- Design and Development
- Providing training to Customer Engineers.

9 Project : **Online Returns Filing System**
Duration : 8 months
Technology : J2EE, JSP, EJB, Struts, IBM MQ Series, XML
Work : HCL, Mumbai (**For Reserve Bank of India**)
Location
Team Size : 7

Description:

The ORFS implementation aims at the computerization of submission of returns/declarations of nationalized banks to the Reserve Bank of India. The system will automate the submission process for the National Banks in filing the returns online. The ORFS was implemented in 3 – tier MVC architecture. A centralized server will contain all the business logic (EJB) and data (Oracle 10 g database). The business logic was implemented in EJB under OC4J Container. Submitted forms were transferred from Centralized Server to different departments in RBI using IBM MQ Series

Responsibilities:

- Team Lead of the ORFS Project
- Design and Development
- IBM MQ Series programming and integration

Academic Project:

Linux Device Driver for Parallel port speaker and System Speaker**Description:**

The objective of the project was to create a device driver which can simulate the /dev/dsp using the parallel port of the PC. This device driver can be used to play music even if the PC does not have Soundcard. The System speaker will simulate the /dev/dsp using the 8253 timer chip present in the computer.

Achievements and Awards:

- Spot Award for performance and Team of the Quarter award from Sasken
- Regular contributor to Linux Gazette, a recognized journal on Linux

Published Articles:

- On running Linux on Armadillo 9 SBC : “[Linux on an ARM based Single Board Computer](#)” and it’s [French Translation](#)
- On developing Desklets on Gnu/Linux: “[gDesklets: Beauty with a Purpose](#)”
- On subversion usage in Gnu/Linux: “[App of the Month](#)”

- On generating Postscript graphs using PyX module in Python : “[Generating Postscript graphs using PyX](#)”
- On three Dimensional programming using visual module in Python : “[3D Programming using Vpython](#)” and it’s [French translation](#).
- On shell scripts unleashing the power of the popular Text to Speech software-Festival: “[Shelling your Linux box with Festival](#)” and it's [French translation](#)
- On using the parallel port of the pc as a Soundcard: “[Discover the hidden 8 bit soundcard in your PC](#)” and it’s [Indonesian translation](#)

Seminars and Workshops:

User2Hacker, Operating System Fingerprinting, VPython

Educational Qualifications:

<u>Degree</u>	<u>Institute</u>	<u>Period</u>	<u>Marks</u>
M.C.A	Govt: Engineering College, Thrissur, Kerala	2001-2004	62%
B.Sc (Physics)	T.K.M.C.A.S, Kollam , Kerala	1998-2001	80.7%

Personal Profile:

Name: Maxin B. John

Date of Birth: 01/11/1980

Sex: Male

Phone : +358504839011

Address for Communication: Otavantie 5 A 16, Helsinki Finland. 00200

Strengths: Good inter personal skills, TEAM worker, Technically Adept, Good Aptitude & Analytical skills.

Linguistic Skills English, Malayalam, Hindi, Tamil

Hobbies: Swimming, Hobby electronics, Tweeting, Cooking

Blog: www.maxinbjohn.info

Declaration:

I hereby declare that all the information provided above is true to the best of my knowledge

Dated: 23-March-2011

Maxin B. John

Place: Helsinki

Senior Software Engineer

Nokia, Finland