Prabhakara Rao Pediredla

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### Summary:

* **7+ years of experience** in design, development, coding and debugging of business/commercial products using **embedded** **operating systems** like **Android,BMP,linux.**
* Expertise in **JAVA,C** programming languages.
* Expertise in **Android-Framework, Android – Framework Optimization, Android – IPC, Android - Applications, HAL-RIL, Middle ware.**
* Expertise in **Android-Native Development** (**NDK**) – **Java Native Interface (JNI).**
* Expertise in **Multithreaded** programming.
* Expertise in **Android-UI Automation** Testing Framework.
* Developed **Telephony-Call functionality automation** using Android’s **UIAutomation.**
* Developed Applications for **Google TV**( Android SDK).
* Experienced in **OS Upgrade** projects.
* Strong experience in **Qualcomm (QCT), Infenion (IFX), and MediaTek (MTK)** chipsets related to Telephony/Call related frameworks.
* Domain level exposure on **GSM-WCDMA(3G),LTE(4G)** technologies on various chipsets.
* Wifi-Calling Applications on **GAN technology** for US-Carriers.
* Understanding & Development knowledge on **NFC** & related Wireless technologies.
* Good understanding of **LINUX-IPC mechanisms & Multithreaded programming.**
* Submitted no.of **Patents** on Telephony-Call-Mobile & related embedded technologies.
* Strong in JAVA **Object oriented programming (OOPS)** & **Design Patterns**.
* Experienced in **Design of Data base schema’s for Embedded applications.**
* Expertise in **UISpecification** development & **MODELLING** using **UML**.
* Expertise in Debugging using **TRACE32** and analyzing **Ram dumps** for phone crashes.
* Proficient in customizing **UIWidgets/Views** & able to develop enterprise UI’s.
* Known experience in **Multimedia** (Gallery/Music).
* Proficient in **Client server architecture’s & MVC architecture.**
* Strong Business and Application analysis skills with **excellent communication & professional skills.**
* Experience in complete **Software Development Life Cycle** (SDLC).
* Ability to adapt to growing technologies & takes challenges independently.
* Excellent Problem solving & Ability to work in-groups as well as individual contributor.

### Achievements:

* Awarded in HCL for the excel delivery.
* LSET 2013- 2014 (**LG Software Engineer Test in JAVA**) passed & awarded in LG.
* Awarded with prestigious **LGE-ANNUAL AWARD** for the performance in LG.
* Awarded with **LGE-OPEN IDEA WINNER** for the innovation in Mobile category.
* Awarded with **LGE-STAR AWARD** for the outstanding performance.
* Recognized With **Feather In My Cap** award in recognition for my contribution to HTC-Smart mobile project in Wipro.
* Awarded many times & stood as a College first for the entire **B-Tech** degree.

### Certifications:

* **Wipro Certified Embedded C – Programmer.**
* **Brain Bench Certified C++ programmer.**

### Professional Experience:

* Currently with **HCL** since **Oct-2014** as a Technical Lead.
* Worked in **LG** Soft India Private Limitedb/w **Feb-2011** **to Oct-2014** as a Systems Analyst.
* Worked in **Sasken** Communication Technologies b/w **Oct-2010 to Feb-2011** as a SSE.
* Worked in **Wipro** Technologies b/w **Mar-2008 to Oct-2010** as SPE.

### Education:

* **B.Tech** in Computer’s from J.N.T.Univeristy with **79%** b/w **2003-2007**.
* **10+2** in Mathematics from Board of Intermediate with **86%** b/w **2001-2003**.
* **10th** from SSC board with **73%** in **2001**.

### Technical Skills:

**Web Technologies :** HTML, XML, JSP.

**Operating System :** Linux,Android,Windows.

**Tools :** QXDM,Trace-32,NDK,CYGWIN,adb,PIRACOM,HWCOMPORT.

**Database / RDBMS :** MS SQL Server 2005, MS Access 2000,SQL lite,Oracle

**Others :** Eclipse,git,CVS.

### Work Experience:

Oct 2014 – Present

**Project: Android 5.0 Optimization**

**My Accomplishments.**

* Optimizing the framework AOSP source w.r.to client requirement.
* Expert in Boot time optimization.
* Native application & framework development.
* System level services & modifications.
* Inter-operable applications with android framework knowledge.

**Environment: Android 5.0(L).**

Model: LG Android KK models May 2014 – Oct2014

**Project: Android 4.4**

**My Accomplishments.**

* eMBMS - LTE application & Framework development for LG Models.
* Designing & implementing a project to meet the product requirements.
* System level services & modifications.
* Inter-operable applications with android framework knowledge.

**Environment: Android 4.4(KK).**

Model: LG Android KK models Nov 2013 – May 2014

**Project: Android 4.4(upgrade)**

**My Accomplishments.**

* Fixing & Delivering, Managing application level issues & RIL issues.
* Handled Framework changes as per specifications.
* Handled the different regions including Middle East & Africa, Europe Regions.
* Delivered the performance level issues in the telephony framework.
* Handled release for the different operators.

**Environment: Android 4.4(KK).**

Oct 2013 – Nov2013

**Project: Diagnostic Tool for Android mobiles**

Remotely able to access the phones screen from R&D machine. Able to view the screen, update the screen, getting the AP & CP logs.

**My Accomplishments.**

* R&D on VNC server.
* Remotely accessing ADB over 3G/2G/Wifi networks.
* Remotely accessing the COM port to get logs.
* Error handling & documentation – code reviews.
* Third party tools integration.
* Testing & debugging.

**Environment: Android 4.2(JB+).**

Sep 2013- Oct 2013

**Project: Call-Phone Test Automation.**

Automated functionality testing of Phone application. Without user involvement, checking/executing the functionalities as many times as we want. Accurate, light weight , unique to platform.

**My Accomplishments.**

* R&D on Android’s UI Automation framework.
* Developed POC’s for Android UIAutomation framework.
* Design & Coding for Call-Phone Application Test automation.
* Error handling & documentation – code reviews.
* Third party applications to receive call / make call & send sms, receive sms periodically.
* Integration with third party applications.

**Environment: Android 4.2(JB+).**

Model: LG D682 June 2013- Sep 2013

**Project: Android 4.1**

**My Accomplishments.**

* Fixing & Delivering, Managing application level issues & RIL issues.
* Handled Framework changes as per specifications.
* Handled the different regions including Middle East & Africa, Europe Regions.
* Delivered the performance level issues in the telephony framework.
* Handled release for the different operators.

**Environment: Android 4.1(JB).**

Model: LG P760 Mar 2013 – June 2013

**Project: Android 4.1(upgrade)**

**My Accomplishments.**

* Fixing & Delivering, Managing application level issues & RIL issues.
* Handled Framework changes as per specifications.
* Handled the different regions including Middle East & Africa, Europe Regions.
* Delivered the performance level issues in the telephony framework.
* Handled release for the different operators.

**Environment: Android 4.1(JB).**

Model: LG P880 Jan 2013 – Mar 2013

**Project: Android 4.1(upgrade)**

**My Accomplishments.**

* Porting all features with respect to new version.
* Handled Framework changes as per specifications.
* Handled the different regions including Middle East & Africa, Europe Regions.
* Delivered the performance level issues in the telephony framework.
* Handled release for the different operators.

**Environment: Android 4.1(JB).**

Model: LG P970 Nov 2012 – Jan 2013

**Project: Android 4.0(upgrade)**

**My Accomplishments.**

* Fixing & Delivering, Managing application level issues & RIL issues.
* Handled Framework changes as per specifications.
* Handled the different regions including Middle East & Africa, Europe Regions.
* Delivered the performance level issues in the telephony framework.
* Handled release for the different operators.

**Environment: Android 4.0(ICS).**

Model: LG P765 & LG P895 Sep2012 – Nov 2012

**Project: Android 4.0**

**My Accomplishments.**

* Fixing & Delivering application level issues & RIL issues.
* Handled Framework changes as per specifications.
* Handled the different regions including Middle East & Africa, Europe Regions.
* Delivered the performance level issues in the telephony framework.
* Handled release for the different operators.

**Environment: Android 4.0(ICS).**

Model: LG P880 & LG P885 July2012 – Sep 2012

**Project: Android 4.0**

**My Accomplishments.**

* Fixing & Delivering application level issues & RIL issues.
* Handled Framework changes as per specifications.
* Handled the different regions including Middle East & Africa, Europe Regions.
* Delivered the performance level issues in the telephony framework.
* Handled release for the different operators.

**Environment: Android 4.0(ICS).**

Model: LG E405 ( DUAL SIM) Apr2012 – July 2012

**Project: Android 2.3**

**My Accomplishments.**

* Fixing & Delivering application level issues w.r.to Dual Sim.
* Handled Framework changes as per operator requirements.
* Handled the different regions including Middle East & Africa, Europe Regions.
* Delivered the performance level issues in the telephony framework.
* Handled release for the different operators.

**Environment: Android 2.3(GB).**

Model: LG E400 Jan2012 – Apr 2012

**Project: Android 2.3**

**My Accomplishments.**

* Fixed application level issues.
* Customer/operator requirements handled properly.
* Handled the different regions including Middle East & Africa, Europe Regions.
* Delivered the performance level issues in the telephony framework.
* Handled release for the different operators.

**Environment: Android 2.3(GB).**

Model: LG P970 (Optimus Black) Oct 2011 – Jan 2012

**Project: OS Upgrade from Android 2.2 to 2.3.**

**My Accomplishments.**

* Fixing application level issues.
* Adding new RIL/Telephony customized features.
* Handled framework changes for the telephony & multimedia.
* Handled Performance optimization for the model by involving in changes of Pre-emptive Garbage collector.
* Power management issues in both application & framework side.
* Involved in bug fixing activity of complete product.

**Environment: Android 2.3(GB).**

Model: HoneyComb on P999 Aug 2011 – Oct 2011

**Project: OS Upgrade from Android 2.3 to 3.0.**

**My Accomplishments.**

* Able to brought up , phone application in Android 3.0(Honey Comb).
* Porting basic telephony/data/MMS functionalities on QC MSM chipsets.
* Involved in upgrading the MODEM –API’s of the QC MSM Chipsets.
* Application side & framework side issues are handled.
* Involved in bug fixing activity of complete product.

**Environment: Android 3.0(HC).**

Model: LG P350 (Optimus Me) Jun 2011 – Aug 2011

**Project: OS Upgrade from Android 2.2 to 2.3.**

**My Accomplishments.**

* Bringing up basic telephony/data/MMS functionalities on QC MSM chipsets.
* Involved in upgrading the MODEM –API’s of the QC MSM Chipsets.
* Application side & framework side issues are handled.
* Involved in bug fixing activity.

**Environment: Android 2.3(GB).**

Model: LG P999 (Optimus 2x) Feb 2011 – Jun 2011

**Project: GAN Lite.**

**My Accomplishments.**

* GAN Lite application is a smart wifi calling application for TMUS.
* Involved in the application integration with android sdk.
* Changes in the both framework & RIL side handled properly.
* Involved in bug fixing activity.

**Environment: Android 2.3(GB).**

Client: Intel Jul 2010 – Oct 2010

**Project: Google TV Applications(Android based Setup BOX)(ref).**

**My Accomplishments** as a **Developer and Designer.**

* Developed and designed basic User Interface applications for TV on android, includes DCCManagerMenu, Manual scan, Input selection menu, sample video view  screens, Direct channel navigation screens, OSD Timeout screens,Genre screens,demographic data screen, geographic data screen,video and audio screens etc on android SDK 2.2.
* Involved in the application integration with standard TV middleware  stack using Java Native Interface(JNI).
* Involved in bug fixing activity.

**Environment: Android SDK 2.2,eclipse galileo,android NDK,CygWin,SVN,Ubuntu-linux.**

Client: HTC, Taiwan Feb 2009 – May 2010

**Project: ROME (HTC Smart).**

**My Accomplishments** as a **Developer and Designer.**

* Implemented listing of all folders both from SD Card and Phone storage, Thumbnail view of videos/images, of Photo Application.
* Features like Copy/delete/rename of both file and folder in phone application.
* Slideshow has been implemented.
* Developed common extensions/customized widgets and menus for the project.
* Wrote many test applications to prove the platform functionality(Related to IGallery).
* Involved in the performance optimization of the phone application.
* Handled the **bug fixing activity** for different Releases of the product using QXDM and Ramdumps.
* Fixed the defects reported by the Static analysis tool (DeepChecker).
* Responsible for interaction with other modules like Camera ,Phonebook, browser, email, mms, File manager and Settings with Photo Application.
* Involved in Code Merging.
* Build Verifications of each major release.
* Done unit testing, integration testing and regression testing.

This is first commercial phone developed on BMP software for a leading OEM based MSM6290 chipset. This phone includes middle level features. We were involved in developing the basic and common applications used in phone including phone canvas, calendar, camera, Bluetooth,FMRadio, Alarm, all media applications... etc.

**Environment: C, Brew Mobile Platform, Visual Studio 2005, Windows XP, CVS.**

Program: BREW and BUIW, HDC AUG 08 – DEC 08

* Attended BREW training.
* Wellknown knowledge in UIWidgets.

**Environment: BREW,BUIWidgets.**

Client: PRP, HDC MAR 08 – AUG 08

**Project: DMS (Directory Monitor System).**

**My Accomplishments** as a **Developer.**

* Involved in the design of Application.
* Implemented background functionality like monitoring the directories in a special system.
* Developed the Log functionality for this project.

**Environment: C,C++,UNIX.**

### Personal Details:

**Full Name :** Prabhakara Rao Pediredla.

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