

# SUDHANSHU GUPTA

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## **Educational Qualifications:**

- **M.S. in “Software Systems” from BITS Pilani** (2007 – 2009) , a Distance Learning Program for working professionals, with an aggregate CGPA of **7.50** out of 10.
- **B-Tech “Electronics & Telecommunications”** (2000-2004) from College of Engineering Roorkee, Roorkee with an aggregate of 67%
- **10+2-CBSE Board** (1999-2000) from Delhi Public School with an aggregate of 77%.
- **10th-CBSE Board** (1997-1998) from Delhi Public School with an aggregate of 79%.

## **Professional Profile:**

- Have a total experience of **13 yrs** (Oct 2004 – Present) in Embedded Mobile Applications / RTOS / Platform (Middleware) / Drivers development / System Debugging / Android Application Development.
- Worked as Senior Software Engineer in the capacity of Senior Android Developer @ OLX India Pvt Ltd.
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- Worked as **Senior Software Engineer** ( Role : - Technical Project Co-ordinator - Android) with **Intel Technologies, Gurgaon(Mar 2015 ~ Sep 2015) @ Client Location :: Micromax Gurgaon.**
- Worked as **Senior Software Engineer** ( Role : - System Debugger) with **Intel Mobile Communications** (former Infineon Technologies), Noida (**Feb 2011 ~ Mar 2015**).
- Worked as **Senior Software Engineer** ( Role : System Debugger + AGPS Driver Engineer) with **Infineon Technologies India Pvt. Ltd, Bangalore (Aug 2010 ~ Jan 2011)**
- Worked as **Senior Software Engineer** ( Role : System Debugger ) with **Infineon Technologies India Pvt. Ltd, Bangalore (Oct 2009 ~ Aug 2010).**
- Worked as **Software Engineer** ( Role : System Debugger ) with **Infineon Technologies India Pvt. Ltd, Bangalore (June 2006 ~ Oct 2009).**
- During my professional career with **Infineon Technologies** , I have evolved as System Debugger dealing with wide spectrum of System’s issues ranging from MMI , Glue Layer , Protocol Stack , Drivers. Also I have contributed as a **Phonebook** module expert for various customer projects.
- Previous Employer -- **Software Engineer** with **LG Soft India Pvt. Ltd., Bangalore.** (Oct 2004 ~ April 2006)

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## **Projects undertaken @ OLX India Pvt Ltd., Gurgaon**

Developed New Features (Single Ownership) :

- 1) Took complete ownership to change theme to White Theme for OLX India app
- 2) Zopim Chat (Customer care chat assistance) integration for OLX India app
- 3) Content First feature development for OLX India App,
- 4) Many more misc features developed and bug fixes handled individually.
- 5) Implementation of Content First Home Screen on New OLX India App
- 6) Implementation of Native Ads (DFP) on HomeScreen and Ad Details page of OLX app.
- 7) Fully customizable Native Ads from backend (Font, Border, Vendor, AdUnit ID etc).
- 8) Other misc features and bug fixes.

## **Special Interests / Hobby Projects :**

**\* Android Application development.**

### **Google Play Store Link (Bulk SMS) :**

(Free) <https://play.google.com/store/apps/details?id=com.unleashed.android.bulksms1>

(Paid) <https://play.google.com/store/apps/details?id=com.unleashed.android.bulksms2>

### **Google Play Store Link (BEEOK Call / MIC Recorder & Blocker):**

(Free) <https://play.google.com/store/apps/details?id=com.unleashed.android.beeokunleashed>

### **Google Play Store Link (Scheduler Unleashed): under development.**

**\* Linux kernel modules (Device Driver) development on RASPBERRY-PI Board.**

- \* Hardware / Software interfacing with Raspberry Pi
- \* Wrote GPIO and I2C libs from scratch on Linux Kernel 3.2.27 for Raspberry Pi
- \* Interfaced various hardware modules via GPIO to Raspberry Pi Development Board
  - RTC (DS1307) (via I2C protocol)
  - 4x3 Keypad Matrix (via GPIO)
- \* 8051 Development board programming using KEIL uVision IDE
- \* **Linux Device Driver and Kernel Programming.**
- \* Board Bringups and porting code to new hardware.
- \* Low-level driver development
- \* Boot-loaders
- \* Memory Map , Memory Footprint Optimization (both ROM & RAM)
- \* 8051 based microcontroller & hardware interfacing.
  - Controlled self made circuits via Port Pins
  - Wrote code from scratch for Timer related services
  - wrote code for UART communication driver between 8051 board and Laptop

## **eBooks Published :**

- 1) <https://www.amazon.in/Building-Image-Raspberry-Pi-www-softwareunleashed-com-ebook/dp/B01N4JLFE1>

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## **Technical Skills:**

Operating System	:	<b>Windows Xp/2k, UNIX Shell, Linux, Ubuntu, Solaris, Yosemite</b>
RTOS Knowledge	:	<b>Nucleus PLUS , ThreadX</b>
Languages / Skill set	:	<b>C, C++, Java, ARM Assembly, Data-Structures &amp; Algorithm, TCP/IP Network Programming, IPC, Multithreaded programming, Android App Development (Java), PHP</b>
Android Programming	:	<b>Threads, ListArray, Custom List Adapters, Telephony Manager, SMS Manager, Grids, Tab Layout, Sliding Navigation Bar, Action Bar, Cursors, SQLite, Exception handling, UI Designing, Design Patterns (OO based), DDMS.</b>
IDEs	:	<b>Eclipse, Android Studio (Google) , VC ++ 6.0 , Visual Studio.NET , KEIL uVision</b>
Configuration Management Tool:		IBM - Rational Clear Case, GIT, JIRA, Kanban
Debugging Tools Used	:	Good hands-on exp. on real-time debugger <b>Lauterbach</b> (Trace32 - JTAG), <b>ETM Back-trace</b> (Power Trace) , <b>Oscilloscope</b> to debug waveforms, <b>Multimeter</b> to check basic circuit alive, <b>Spectrum Analyser</b> to detect clock frequencies, <b>GCOV</b> to analyse code-coverage, Source Insight, Microsoft Visio, Visual Studio Debugger., ARM Cross Compiler, ARM Code Warrior IDE, Sun Mobility Studio v6.0, Bounds Checker
GUI Development		VB 6.0 , VB.NET 2005 , HTML and Jscript

## **Academic Projects :**

### **MS in Software Systems (BITS Pilani)**

**“Cable Free Communication Unleashed – BLUETOOTH HID-Profile”** is a project undertaken by me to design , propose and implement a solution (over and above Infineon’s existing BT architecture) to seamlessly integrate BT Keyboard and BT complaint phone. My role was to design & codify BT HID Profile from the standard specs and modify MMI code (Red Arrow Plus) to receive inputs from the BT Keyboard.

### **Electronic Voting Machine (COER, Roorkee)**

Takes user input from Electronic voting machine , when ever user presses a button, and stores the input in a database. The communication happens via Printer port aka Parallel Port.

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## **Achievements:**

### **OLX India Pvt Ltd.**

- Received “Team of the Quarter” award for Android Team’s dedication for BHAG App revamp.
- Won award for implementing Idea of Loyalty program inside OLX app in internal Hackathon.
- Won first prize at OLX’s Techathon organised at LeMeridian Gurgaon. (Participation strength ~60 candidates).

### **Intel Mobile Communications**

- Received “Reward and Recognition” Award Sep 2014 for my presentation on “System Debugging” to INTEL HW Team (DRD)
- Received “ **Star of the Quarter Award Q4 ‘2011** ” for my efforts in CATFISH project.
- Received “ **Star of the Quarter Award Q3 ‘2010** ” for my efforts in AGPS team.

### **Infineon Technologies**

- IFX’s AGPS Chipset Demo to Asian Customers along with Infineon’s top management.
- Given Internal presentations on topics like “Basic Trace32 Usage” , “Profiling using BackTrace (Power Trace)”
- Given technical presentations to Samsung (India) engineers on topics covering “Architecture & Usage of **C-AT System (Customer AT commands)**”
- Given technical presentations to LG Electronics(Korea) engineers & Infineon Korea employees on topics covering “Architecture & Usage of **C-AT System (Customer AT commands)**”
- Given technical presentations to LG Electronics engineers on topics covering “**Core Dump extraction and analysis**”. Three batches with an audience strength of 50+ each.
- Award for “**Team of the Quarter**” for **LG Z350 project**.
- On spot award and project incentive for my performance in Samsung’s “SLEEK” project.
- On spot award and appreciation letter for my performance in LG’s “SHINE” & “V1 PRADA” project.

### **LG Soft India Pvt. Ltd.**

- Successful completion of IOP test fest with other MMS Clients @ Seoul, Korea (Duration 2 Months).
- Provided integration of various file formats with MMS Client e.g. WBMP, AAC, MP3, AMR
- Implementation of Attachments (vCard vCalendar) Module.
- Internal presentation taken up on MMS Client developed at LGSI, India
- The presentation audience consisted of Team Leaders of other teams at LGSI and Mr. H.J.Choi (CEO, LGSI, India)
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## **Personal Details:**

Nationality	Indian
Date of Birth	30 <sup>th</sup> Aug 1982
Permanent Address	Dwarka (New Delhi)
LinkedIn Profile	<a href="http://in.linkedin.com/pub/sudhanshu-gupta/8/487/484">http://in.linkedin.com/pub/sudhanshu-gupta/8/487/484</a>

I hereby affirm that the aforesaid is accurate and true to the best of my knowledge.

Signature

(Sudhanshu Gupta)