**Suman Kumar Sikdar**

**Present Address:** **Permanent Address:**

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Dob: 18/04/1987

Pan: NMKLO1236H

Passport: B1236523

Gender: Male

Marital Status: Single

**Career Objective**

To be at a place in an organization where my skills and abilities can be used, to full extent and provides me opportunities to learn more and enhance my own knowledge for the

behalf of people of the organization.

**Job Profile**

* Currently working as Technical Lead with **Samsung R&D India, Bangalore**. Joined Samsung as Software Engineer on **10th September 2007** as mobile applications developer for different platforms.

Worked on many mobile platforms like, SGP (NXP), INFINION, SHP, BADA, ANDROID.

For last almost 3 years working on WI-FI application & framework for Android platform. Engaged mainly in developing WI-FI applications, commercialization of projects for USA market, bug fixing, code analysis, code review etc.

* Worked as a Software Engineer with Aricent (Formerly known as **Flextronics Software System**), Gurgaon/Chennai from **19th** **June-2006 to 7th September-2007**.

**Experience Summary**

* Overall **8 years 2 months** of rich industry experience in Mobile applications development, enhancements, analysis and design, programming and code fixing, porting for Mobile handsets softwares as well as product commercializations.
* 3+ years of experience on Android platform.
* 3.5 years experience in Core java development.
* 5+ years of experience in C/C++.
* Good knowledge in Wi-Fi & Wi-Fi Direct framework. Working on WI-FI (applications & framework) module for last 3+ years on Android platform.
* Good knowledge & understanding of Mobile Handset MMI architecture.
* Has worked/interfaced directly with HQ (Samsung Korea).
* Has worked with USA operators (US Cellular, MPCS, Trackfone etc.)
* Experience of working with engineers from multi-site i.e. Korea/Europe/America.
* Having Onsite exposure (South Korea & Bangladesh).
* Strong exposure in preparation of Design & Implemetation strategy, Optimization Planning , Bug Fixing with minimal turnaround time.
* Good experience on Development tools – Eclipse, Microsoft Visual studio.
* Strong communication, interpersonal, analytical & team building skills with proficiency at grasping new technical concepts quickly and utilizing the same in a productive manner. Recognized as a good Team Player.
* An excellent team player with a deep sense of commitment and strong desire to learn

and grow. **Strong in code debugging**.

**Skill Set**

* **Programming language & skills :** 
  + - C
    - C++
    - Core Java
    - Data Structure
    - Algorithms
* **Modules :** 
  + - WI-FI (IEEE 802.11 a/b/g/n),
    - Wi-Fi Peer to Peer (Wi-Fi Direct).
    - Phonebook applications
    - Game applications
    - Calendar applications,
    - Organizer,
    - Alarm manager
    - Messaging application,
    - Multimedia applications,
    - Editor UI, MMI
* **Mobile platforms :** 
  + - Android
    - BADA (Open Service Platform)
    - SHP (Samsung own Platform)
    - SGP (NXP Platform)
    - Infinion
    - Windows Mobile 5.0 and 6.0

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| * **Operating System :** | * : | MS-DOS, WINDOWS 9X, 2000, ME, XP, Linux Ubuntu. |
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* **Development Tools :**
  + - Clear Case
    - Perforce
    - Source Insight
    - log analysis tools
    - Air PCAP
    - Power monitor
    - Wire Shark
* **Debugging Tools :** 
  + - Trace32,
    - Lauter Bach
    - Visual Studio IDE
    - Eclipse IDE
* **Exposure :**
  + - Onsite experiences to Korea and Bangladesh for Field Support & development.

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| **Educational Qualifications** |

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| Degree | Major Courses | Institution/University | Percentage |
| B. Tech.  (2002 – 2006) | Electronics And Communications Engineering (ECE) | National Institute Of Technology, Durgapur  ( REC Durgapur) | 72.6 |
| 12th | Physics, Chemistry,  Mathematics | Bidhan Chandra Institution, Durgapur  **Board:** W.B.H.S.E | 78.0 |
| 10th | N.A. | D.S.P. B-Zone High School, Durgapur  **Board:** W.B.S.E | 82.5 |

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| **Industry Experience** |

* 10th September 2007 till Date

Samsung R&D India, Bangalore ( SRIB ).

Location: Bangalore

Current Designation: Technical Lead

* 19th June 2006 to 7th September 2007

Aricent Technologies Pvt. Ltd. ( Flextronics Software System )

Location: Gurgaon, Chennai

Designation: Software Engineer

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| **Area Of Interest** |

* **Core Java**
* **C++ Programming**
* **C programming**
* **Data structures & Algorithms**

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| **Achievements** |

* Filled & Received patent on Wi-Fi Direct.
  + Title: **Method and system for selecting a new group owner in a Wi-Fi peer-to-peer network based on logical centre.**
  + Patent application no. :**549/CHE/2014**
  + CS filed on :**6th February, 2014**
* Samsung **Business Contribution Award** for excellent contribution at client site.
* Received **Spot (Star) Awards** twice for good performance in development &team management.
* Received **Long Service Award** for completing 5 successful years with Samsung India.
* Received **Best Project Presentation Award** from Mr. Ash Bhardwaj , CEO of ARICENT.
* Received award as a token of appreciation from **Mr. Rathin Roy, Mayor of Durgapur** for good results in **10th** standard Board Examinations.

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| **Major Professional Projects ( in reverese chronological order )** |

* **Organization :**
* Samsung Research India, Bangalore
* **Projects :**
* ZigBee framework development & native layer porting for vendor (Silicon Labs) provided stack.
* **Team :**
* North America Connectivity Group
* **Team size :**
* 4 members
* **Platform :**
* Android
* **Module :**
* ZigBee (Personal Area Network) technology.
* **Role :**
* Framework development, native layer porting, analysis.
* **Duration :**
* Ongoing (2.5 months).
* **Responsibilities :**
* **Development :**
* Native layer porting (JNI) for ZigBee stack provided by vendor (Silicon Labs).
* Android framework development & application level support for ZigBee network.

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* **Organization :**
* Samsung Research India, Bangalore
* **Projects :**
  + Feature development & commercialization for different Samsung models for Android platform (North America market).
* **Operators :**
* Metro PCS, US Cellular, Trackfone.
* **Team :**
* North America Connectivity Group
* **Team size :**
  + 5 members
* **Platform & Chip vendor:**
  + Android (Ginger Bread / Ice Cream Sandwich / Jellybean / KitKat ).
  + Broadcom chip **BCM 4329/4330/4334/4335**, Qualcomm chip **AR6005/AR6009**.
* **Module :**
  + WI-FI (IEEE 802.11 a/b/g/n), WI-FI DIRECT
* **Role :**
* Team lead, development, field support, project commercialization
* **Duration :**
  + 3 years
* **Responsibilities :**
  + **Achievements:**
    - * Patent*:* **Method and system for selecting a new group**

**owner in a Wi-Fi peer-to-peer network based on**

**logical centre.**

* + - * Patent application no. :**549/CHE/2014**
      * CS filed on :**6th February, 2014**
      * **Another 2 ideas pending on HQ IP team for grading.** –
        + **a)** Recovery of transient connection loss over Wi-Fi Direct Service for Printer function.
        + **b)** Context based Wi-Fi Direct Service Discovery.
  + **Development :**
    - * **WI-FI Offloading:** - Development of this feature, which allows Mobile data offloading from 3G / LTE to WI-FI.
      * **WI-FI Timer:** - This application allows scheduling of WI-FI usage. Also involved of developing location based (base station) Wi-Fi activation.
      * **WI-FI Direct Chat Application:** - Chat applications consist of Single chat, group chat & Video chat.
      * **Surveillance Camera:** - Implementation of Surveillance features for Android mobile phone & tablets for Wireless Local Area Network.
      * **S-Notify:** - Provides notifications for SMS, MMS, Low Battery, Missed call alerts etc on remote devices connected on Wireless Local Area Network.
      * **Tag & Go:** - Implemented Tag & Go Mobile AP part for Samsung Galaxy Camera II.
      * **Easy Share:** - Touch to Copy & Touch (other device) to paste content over Wireless Local Area Network.
      * **Boot up time optimization:** - Boot up time optimized for WI-FI loading scenario. Framework code is modified to optimize it.
      * **Live Video Streaming over Wi-Fi Direct mechanism**: - Implemented live video streaming feature over Wi-Fi Direct technology (Samsung Share shot feature).
  + **Porting & Commercialization :**
    - Porting many features for ongoing models like,
      * **WI-FI Roaming:** - Seamless roaming between multiple Access point.
      * **Mobile Hotspot:** - Mobile is used as Access point & provides WI-FI connections to other devices.
      * **All-Share application:** – Media sharing between devices.
      * **Wi-Fi Protected Setup (WPS):** - Porting on Android ICS models.
      * Bug fixing on WI-FI modules (analysis of WI-FI driver issues, WPA supplicant, framework related changes), for all ongoing models.
      * Having experience on latest Android JBP (Android 4.3), Kit Kat (Android 4.4).
      * Direct interaction with Broadcom & Qualcomm engineers for Wi-Fi driver related issues.
* **Organization :**
* Samsung Research India, Bangalore
* **Projects :**
* Feature development & commercialization for different Samsung models for BADA platform (Indian market).
* **Team :**
* South West Asia
* **Team size :**
* 7 members
* **Platform :**
* BADA & SHP
* **Module :**
* Applications, Phonebook, Settings.
* **Role :**
* Development, field support, project commercialization
* **Duration :**
* 1 year 6 months
* **Responsibilities :**
* **Development :**
* Developed multiple application like
  + **IMEI Tracker:** – Provides the IMEI & other handset related information to Samsung server for maintaining a data base of Samsung handset.
  + **Mobile Number Tracer:** - A BADA application which lets user to trace a mobile number (mobile number belongs to which state).
* **Porting & Commercialization :**
  + - * + **Mancala game:** - It was a desktop application. Porting was done on BADA platform.
        + Bug fixing for all ongoing models for commercialization perspective.
        + **Porting Indian Calendar** on BADA platform.

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* **Organization :**
* Samsung Research India, Bangalore
* **Projects :**
* Samsung feature phones.
* **Team :**
* South West Asia
* **Team size :**
* 2 members
* **Platform :**
* Red Arrow ( A Infineon platform)
* **Module :**
* Phonebook, Settings, Applications
* **Role :**
* Development & porting.
* **Duration :**
* 6 months
* **Responsibilities :**
* **Development :**
* Developed multiple application like
  + **Phone profile:** – Creation of Phone profiles from scratch for low end model.
* **Porting & Commercialization :**
  + - * + **Porting of Bike profile** from SGP platform to low end Infineon model.
        + **Porting of Cricket & Sudoku game** from SGP platform to Infineon platform.
        + **Porting Indian Calendar** on Infineon platform.

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* **Organization :**
* Samsung India
* **Projects :**
* Samsung feature phones.
* **Team :**
* South West Asia
* **Team size :**
* 10 members
* **Platform :**
* SGP (NXP Platform)
* **Module :**
* Applications, SMS, Alarm, Music Player.
* **Role :**
* Development, field support, project commercialization
* **Duration :**
* 1 year 10 months
* **Responsibilities :**
* **Development :**
  + - Developed multiple applications like
  + **Etiquette Pause**: - Using Accelerometer of mobile, controlling sound profiles for Incoming Call & Music Player.
  + **Indian Calendar**: - This application provides 50 years of Indian Holiday list.
  + **Mobile Tracker**: - Security feature that helps to track your phone when it is stolen.Also includes the feature to retrive Contacts, deleting personal information & getting new SIM number.
  + **Mobile Prayer**: - Mobile Prayer offers various prayers including Christian, Hindu Prarthana, Islamic Salat, and Sikh Gurbani, preset your prayer times and the Religious UI, prayers and sacred music will turn on.
  + **SMS Ticker**: - When SMS is received , it scrolls the message on screen when user is in call/playing Java games or in Camera application without closing the current application.
  + **Preset SMS**: - Sending time of a SMS can be configured, timer is added. Preset sending time of a SMS.
* **Porting & Commercialization :**
  + - Bug fixing, field support for all ongoing models.

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* **Organization :**
* ARICENT (formerly known as Flextronics Software System)
* **Projects :**
* Moto - Q
* **Team :**
* Motorola USA
* **Team size :**
* 2 members
* **Platform :**
* Windows Mobile 5.0 and 6.0 (C++, MS DirectX SDK)
* **Module :**
* Camera Application & Framework
* **Role :**
* Development
* **Duration :**
* 1year 2 months.
* **Responsibilities :**
* **Development :**
  + - This project Camera Module is based on implementation of advanced features, given by **Motorola (USA).** These features are implemented using Direct Show Filters (WIN 32).Development was done from scratch to bring up Camera in Windows Mobile. Also worked on Panorama view based on Scalado Engine.
    - Bug fixing for Multimedia Codec implemented on Windows Mobile platform.

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| **Global Experience** |

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| South Korea (HQ) | January 2009 – March 2009 | Went for Field support for ongoing models & customer interaction till receive PRA. |
| Bangladesh | January 2011 – March 2011 | Went to provide training to SBRC (Samsung Bangladesh) team & project support. |
| South Korea (HQ) | April 2011 – May 2011 | Went for Field support for ongoing models & customer interaction till receive PRA. |

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| **Final Year Projects** |

1. **Digital Control Mechanism for a Remote Control** **Prototype Heli Plane.**

**-** Under Dr. Amiyo Bhattacharya from Central Mechanical Engineering Research Institute.

1. **Design & Control Mechanism Of A T.V.** **Transmitter**

**-** Under Dr. Amiyo Bhattacharya from Central Mechanical Engineering Research Institute.

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| **Personal Strength** |

Comprehensive problem solving abilities, excellent written & communication skills, ability to deal with people, very simple and hard-working guy with a great sense of responsibility, always try to put my best effort if the work is challenging and the environment is supportive, highly optimistic, and determined in nature, having excellent problem solving skill through modular approach & flexible enough to learn a new technology for job purpose and my own interest. Passionate about doing something new & unique.

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| **Extracurricular activities** |

* Having 1st class degree in GUITER from “**SARBA BHARATIYA SANGEET - O - SANSKRITI PARISHAD**".
* Have been actively involved with the organizing committee of the College Technical Festival for two years.
* Was Vice Captain of College Cricket Team.
* Was the member of “**AROHAN**” (One Cultural Committee of the College).

**I hereby reaffirm that all the information furnished above is true to the best of my knowledge and belief.**

***PLACE:***

***DATE:***

***(SUMAN KUMAR SIKDAR)***