SATISH A BHOYAR

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DOB : 10th June 1984

Passport No : H1179368

Pan No. : BNMKL1236K

Gender : Male

Marital Status: Single

**Professional Summary:**

7+ years of experience in,

**Android**

* Hands on experience in **Android L & Android Wearable** application development.
* Have a strong experience in **Android Application development** **& Android architecture.**
* Hands on experience in **Android Bluetooth framework.**
* Having experience in **Java Native Interface.**

**Web Tech:**

* Familiarity with **RESTlet** , **jQueryMobile**, **HTML5, JSON** framework.

**Bluetooth Low Energy (Bluetooth 4.0) :**

* Hands on experience on Bluetooth Low Energy (BLE) & Bluetooth Low Energy Profiles.
* Hands on experience on nrf51822 development board (Nordic make).

**DSP Audio System & Kalimba DSP platform:**

* Porting and Optimization of **Audio/Speech Post Processing Algorithms** (PEQ, AVC, AEC).
* Expertise with **CSR BCMM5 multimedia Processor with 24 bit Kalimba DSP**.

**Arduino Open source platform(ATMEGA Platform):**

* Integrated BlueSmirf Gold from Sparkfun with Arduino and was successfully able to work with it also wrote a simple android application and could read sensor data from arduino.
* Integrated small sensors like LED, LDR with arduino.

**Tools:**

* Programming languages :- C, Java, Kalimba Processor Assembly, jQueryMobile.
* Tools :– FTS, Snipper, Audio analysis tools, Sqlite, Eclipse, Visual Studio 6.0, Android Sdk & ndk
* **Holding US Visa B1/B2 and also got opportunity to work overseas in USA and Taiwan.**

**Academic:**

M.S. IIT Chicago (online program) pursuing

B.E RCERT affiliated to Nagpur University (India) 2004-2007 73.07%

**Career Profile:**

* Currently working as Lead Engineer for **Smartplay Tech Bangalore** since April 2014.

## Worked for Polycom R & D Center Hyderabad from Jul 2012 to April 2014.

## Worked for Motorola Moility India Ltd ltd from Dec 2009 to Jul 2012 as a Software Engineer.

## Worked for Tata Elxsi Ltd Bangalore as Software Engineer from July 2007 to Dec 2009.

**Professional Exp:**

**Smartplay Tech,Bangalore Apr 2014**

**Android Lollipop TV, Client-Chipset Manufacturer, Taiwan Individual Contributor**

* Travelled to **Taiwan (Client HQ)** & developed **GATT-PTS test android-L application** to resolve PTS-GATT test cases.
* Travelled to **Google HQ USA** for solving critical issues and attending feature discussions.
* Developed “**SCO over HCI”** testing application on Android L platform.
* Developed application to show “**3D Glass** **notification**“.
* Understanding of Bluetooth stack (Client prop) Architecture.
* Handling Bluetooth LE issues, resolving issues related to stacks and profiles.
* Fixing Bluetooth related issues on Android framework and application.
* Worked on Bluetooth Low Energy stack parameter changes and verification as per the customer requirements. Was involved in customer discussion for finalizing the required parameters.
* **In House Work**: - Worked on developing Bluetooth low energy profile for light control on **nrf51822 (Nordic)** development board and developed **Android application** to control the light over BLE. Showcased the demo to higher managers.
* **In House Work: -** Worked on creating a small demo which showcases IOT & shows how can we access the Bluetooth Low Energy devices over HTTP.

**Polycom R & D, Hyderabad Jul 2012 – April 2014**

**Polycom Touch Control Lead/Individual Contributor**

* Involved in enhancement and support of Polycom Applications for Polycom Touch Control device.
* Interacting with tier support for customer’s escalations & issues.
* Interacting with product management for requirement discussion for new features.

**IP -** Conceptualizing next gen polycom touch control, which will be wireless based on HTML5.

**Motorola Mobility Inc, Bangalore Dec 2009 – Jun 2012**

**Bluetooth based accessory for smart phones Individual Contributor**

**Bluetooth Application:**

* Design and development of framework for Client-Server Architecture to connect to server for Android devices over Bluetooth.
* Framework is design such that to open up to 3 channels for transferring server data to the client over Bluetooth.

**Bluetooth Low Energy (BLE):**

* Development of Bluetooth low energy profiles, Heart Rate Monitor Profile & GATT Bluetooth Low Energy.
* Writing JNI Interfaces for all the GATT profile tasks.
* Integrating BLE Heart Rate Monitor Profile in the existing sensor
* system.
* Implementing JNI methods for enabling selection of ANT+ or BLE sensor for the user.

**Android Based Music Player Individual Contributor**

* Android application development.
* Worked on Android AppWidget for the application.
* Worked on UI development using xml for the application.
* Accessing Service & ContentProviders.
* Worked with Animations such as Scaling, Translation & alpha & the combination of these for the effects and Gestures & HomeScreens.

**Tata Elxsi ltd, Bangalore Jun 2007 – Dec 2009**

**Adaptive Earphones Individual Contributor**

* Implementation of Goertzel algorithm for calculating gain of the calibration signal, in C & Kalimba.
* Float to Fixed point conversion of the Goertzel code & 24 bit conversion.
* Implementation of PEQ Recalculation algorithm to calculate the new PEQ Coefficient on the basis of leakage calculated in Kalimba DSP.
* Implementing Matlab Interfaces for configuring the parameters of Algorithm such as Calibration signal Frequency, its Volume, Initial gain for algorithm, target leakage, etc & displaying the result of the operation.

**Audio Enhancement Package Individual Contributor**

* Design & Implementation of Protocol layer for the data exchange between DSP board & PC over UART.
* Design & Implementation of Communication layer for the data exchange between DSP board & PC over UART.
* Performing Unit testing on the each module of the Protocol Layer & Communication Layer.
* Development of PEQ (Parametric Equalizer) in C & porting it on the Kalimba DSP.
* Float to Fixed point conversion of the PEQ code & 24 bit conversion
* Porting & optimization of AEC(Acoustic Echo Cancellation) on Kalimba DSP.