**Penuballi Chenchu Manoj Kumar**

E-Mail: manojshakti619@gmail.com Mobile: +91-7799615614

**Objective:**

Career Enhancement in Embedded System Design & Development with a frontline organisation.

**Professional Summary:**

* A result oriented professional with **2+** years of Experience in Embedded Software Development.
* Presently associated with **Mindtree** Pvt Ltd, as **Senior** **Engineer**, Working in Embedded Domain as a **DEVELOPER**.
* Hands on experience in the Low level Bluetooth Stack Development
* Work experience with Bluetooth debugging tools (hcidump, wireshark).
* Firmware Development for Microcontrollers.
* In- depth understanding in Embedded C , C++.
* Hands on experience with **UART, SPI, I2C.**
* Work Experience on code version control tools like **GIT.**
* An effective leader and honed communication, interpersonal & analytical abilities.

**IT Skills:**

* **Programming languages**: C,C++
* **Microcontrollers**:8051,ARM(LPC2148), CSR 8670/8675(Audio SOC)
* **Development tool-chains**: Keil uvision, CSR ADK
* **Compilers**: GCC, Visual studio
* **Protocols** : I2C,SPI,UART, & Google Spreadsheets(for IoT)
* **Editors**: vim, Notepad++,eclipse
* **Operating System** : Windows, Linux (Ubuntu)
* **Wireless Technologies :** Bluetooth, NFC
* **Skills :** Basics of Linux device drivers(Worked on USB device driver for Bluetooth),

Linux OS internals.

**Work Experience:**

1. **Mindtree Pvt Ltd** (Bangalore, India)

**Duration**: From Jan-2016 to Till Date

**Projects:**

**Project #1**

**Project Name: Development of BT & USB Headset Products by working closely with customer**

**Platform**: Windows

**Compiler**: CSR ADK 4.2

**Role**: Developer

**Organisation**: Mindtree Pvt Ltd

**Workplace**: Bangalore

**Description**: Project related to completely working closely with customer for development of the product & explaining the technical challenges for developing the feature (if present).

**Roles and Responsibilities**:

Working closely with customer in the agile process to get the product developed as per the requirement by giving suggestions for the better implementation of the product behaviour. Automation of Test cases of HS products as per the requirement of customer based on the CSR audio SOC using CSR ADK 4.0. Bug fixing for the products that are already available in the market as well as the developing products.

**Project #2**

**Project Name: Development of accurate licensing information for a Data Backup Product**

**Platform**: Linux, windows

**Role**: Developer

**Organisation**: Mindtree Pvt Ltd

**Workplace**: Bangalore

**Description**: Providing the accurate licensing information for the amount of data that was protected for customer. The licensing should not calculate for the repeated data protection.

**Roles and Responsibilities**:

Developed the code to capture the amount data that was being protected & sending the data to registered server. Developed the Unit test cases for the new functions added.

**Project #3**

**Project Name: Development of Bluetooth headset application**

**Compilers:** gcc

**Team Size**: 2

**Organisation**: Mindtree Pvt Ltd

**Workplace**: Bangalore

**Description:** This project is for porting Bluetooth stack on to client's Audio Platform & writing a headset application which can handle the A2DP, AVRCP, HFP, low power mode(sniff), SPP, Low Energy profile, reconnection after Link Loss, & reconnect to last connected device.

**Roles and Responsibilities:**

Written the application code that can handle the HFP, A2DP, AVRCP, SPP profile & low power mode of the Devices in multiple connection, reconnection after link loss, reconnection to last connected device on linux Platform. Then after porting this application on to client platform, mapped the keys & leds of the audio Platform for user interaction purpose.

**Tools & Technologies:**

RTX Unity II (Debugger) & RTX Nexus 4(Software) tools are used for flashing & Debugging

**Role Played:** Developer

**Project #4**

**Project Name: PTS AUTOMATION**

**Platform**: Windows & Linux

**Compiler**: Visual Studio (Windows), GCC(Linux)

**Role**: Developer

**Organisation**: Mindtree Pvt Ltd

**Workplace**: Bangalore

**Description**: This is project is to automate the PTS tool which is used to test the bluetooth host stack that was developed. We have automated at the host stack in such a way that if the required information is received then the corresponding command is executed and the information is sent to the PTS tool through LAN from host stack side.

**Roles and Responsibilities:**

Developed an application (both Server & Client) that can handle & parse the data received from PTS tool through LAN & pass the information to stack. Then acknowledgment information to PTS tool

**Project #5**

**Project Name: Development of HFP profile on bluez**

**Platform**: Linux

**Compiler**: GCC

**Role**: Developer

**Organisation**: Mindtree Pvt Ltd

**Workplace**: Bangalore

**Description**: Went through the initial training of Bluetooth for 2months & worked on various assignments during this period. As a part of training developed the HFP profile for the open source Linux Bluetooth stack.

**Roles and Responsibilities**:

Developed the code for HFP connection initiation & parsing the AT commands received from the audio gateway.

**Education:**

2015 B.TECH (E.C.E) from Audisankara college of Engineering & Technology (JNTUA) and secured 76% aggregate

2011 Intermediate M.P.C from Sri Chaitanya junior college and secured 94.8%

2009 S.S.C. (Class 10th) from M.G.M high school passed out in 2009 with 92%.

**Academic Projects:**

**Title:** LAN +based Data Acquisition System using 8051 micro controller

**Personal Details:**

* Permanent Address : H/No:-10-2A,Lakshmipuram,Rapur(Vi & Ma), SPSR Nellore (Dist.), AP - 524408
* Present Address : Global Village Back gate, Mylasandra, Bangalore - 560059.
* Father’s Name : Murahari
* Sex : Male
* Marital Status : Unmarried.
* Hobbies : Tech geek, Listening music, Spending time with family & friends
* Date of Birth : 8th August 1994