

P.C.Manoj Kumar

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Objective:

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

Professional Summary:

- A result oriented professional with **1.5+** years of Experience in Embedded Software Development.
- Presently associated with **Mindtree** Pvt Ltd, as **Engineer** ,Working in Embedded Domain as a **BLUETOOTH DEVELOPER**.
- Hands on experience in the Low level bluetooth Stack Development
- Work experience with bluetooth debugging tools (hcidump,wireshark).
- Firmware Development for **8** bit Microcontrollers **8051**, Micro Controller.
- In- depth understanding in Embedded C, C ,C++.
- Hands on experience on **Low level firmware drivers UART, SPI, I2C**.
- Work Experience on code version control tools like **GIT, SVN**.
- An effective leader and honed communication, interpersonal & analytical abilities.

IT Skills :

- **Programming languages:** C, Embedded C,C++
- **Microcontrollers:**8051
- **Development tool-chains:** Keil uvision,RTX Nexus 4
- **Compilers:** GCC,Visual studio
- **Protocols :** I2C,SPI,UART
- **Test Validation Tools :**PTS Tool(For Bluetooth)
- **Editors:**vim,NotePad++
- **Operating System :** Windows 7, Linux (Ubuntu)
- **Linux Device Drivers :** USB,PCI(Basics)

Work Experience:

Mindtree Pvt Ltd (Bangalore,India)

Duration:From Jan-2016 to Till Date

Projects:

Project #1

Project Name: Development of Headset application

Platform : Linux,Windows

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 device in multiple connection,reconnection after linkloss,reconnection to last connected device on linux platform.Then afterporting this application on to client platform, mapped the keys and leds of the audio platform for use interaction purpose

Tools & Technologies : RTX Unity II (Debugger) & RTX Nexus 4(Software) tools are used for flashing & debugging.

Role Played : Developer

Project #2

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 and parse the data received from PTS tool through LAN & pass the information to stack.Then acknowledgment information to PTS tool

Project #3

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 profile registration, connection initiation, storing the connected bluetooth controller whitelist & parsing the AT commands received from the audio gateway and performing the corresponding action based on the AT command received.

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 Project:

Title: LAN based Data Acquisition System using 8051 micro controller.

Description: Developed the code to communicate with various sensors using the i2c,spi protocol & transferred the data to the system(Linux Desktop) through UART to a server & that transfers the data to the various clients on request.

Role & Responsibilities: Understood the architecture of 8051 microcontroller, & the internals of the sensor,LCD. Developed the firmware code for their communication.

Personal Details:

- **Permanent Address** : House No: - 10-2A, Lakshmipuram Rapur (Village & Mandal), SPSR Nellore (Dist.), Andhra Pradesh - 524408
- **Present Address** : Global Village Back gate,Mylsandra,Bangalore - 560059.
- **Father's Name** : P.C.Murahari
- **Sex** : Male
- **Marital Status** : UnMarried.
- **Hobbies** : Tech geek,Listening music,Spending time with family & friends
- **Date of Birth** : 8th August 1994