**Ankur Sharma**

Mob. -9990304661

**E-mail**- ankursiet.07@gmail.com

**Objective:**

My current objective is to work in a position where my skills of Software development in C/C++/Embedded can be utilized to full extent.

**Skills:**

Qt framework, JUCE framework, C, C++, Assembly language, Data Structure in C

Linux Internal, Basic Device Drivers

Microcontroller/ Microprocessor/ DSP programming in Assembly and C

Arduino, Raspberry PI

ESP32

**Software:**

**IDE**: Visual studio, KEIL, MPLAB, Micro Pro C, AVRDUDE, WINAVR, PONYPROG, AVR Studio 6,

**PCB Design:** Orcad, Protius, Express PCB, Eagle

**Microprocessors / Microcontrollers**

* Intel : 8085, 8086/88, 8xC51FA/FB/FC, 8xC251
* Atmel: 89C51/52/55, 89C2051, 89s52, 89s51, AVR Series: ATmega16, ATmega32.
* Microchip: PIC16F877A ,PIC18F458
* Philips: ARM7 LPC2114, LPC2124, LPC2148
* Arduino: UNO, Duemilanove
* ESP32

Protocols and modules implemented:

* Timer, PWM, capture, compare, Comparator, ADC.
* Communication Protocols: RS232, RS485, USART, SPI, I2C
* ESP32 Wi-Fi driver using Wi-Fi manager library
* Https POST and PUT request implementation for communication with the server
* ESp32 Wi-Fi OTA implementation for firmware update
* Factory Reset
* SNTP protocol implementation using time.google.com server
* Non-volatile storage (NVS) implementation
* AP mode/ station mode/Sleep mode Implementation

Hardware Interfacings:

* Led, Led matrix, DC, Stepper motor, Seven segment, LCD, I2C-LCD,Relays
* Switches, Matrix keypad
* DTMF card, MAX7221, USB-TTL, RS232, RS485
* Bluetooth HC-05, RF, RFID,ZIGBEE, ZIGBEE PRO ,MPU6050
* Accelerometer, Gyroscopic, Analog-IR, Ultrasonic, Finger print sensor, Heartbeat, Vibration, Piezoelectric, Light, Sound, gas, temperature, alcohol sensor.

**Experience Summary:**

**Chetu India Pvt. Ltd. Sec 63 Noida**

**Team Lead, April 2016 to till date**

**Company Profile:**

Chetu is service based IT company, founded in year 2000.

**Responsibilities:**

Software development for different domain projects and worked a software developer.

**Projects:**

Megaphone-TV

This project was related to news channel video streaming with some superimposed

Advertisements / quizzes at the bottom for viewers.

Here, SDK was used to fetch the advertisements/quizzes from the server and then Qt library methods were used to superimpose the advertisements on the video stream.

MT Data

This project involved EMV contact/contactless and non EMV certification of the payment brands like Amex, MasterCard, etc. certification process was for US and Canada.

Tools like BTT along with all its drivers was used to connect to the Ingenico device and using some configuration files test scripts were loaded and executed.

FidelityExpress

PSMGaming

This project was from Gaming domain.

SAS static library (.lib) was developed which could be integrated with any casino game.

SAS library maintains all accountings related data of the game.

For implementing SAS library using callback mechanism where callback methods can be registered with the actual game methods to get all the relevant data and which thereafter can get the response and parse the same to display all the data on SAS tool.

Successpure

This project was for trading domain.

Scripts were written for identifying the

AdamAudio

Audio configuration control UI and firmware development.

ADSP21478, Rotary button implementation for detecting direction and speed of rotation

Detecting multiple USB devices and controlling them with the application

DVDNOW

Driver for printer and cutting the paper using APIs

BongioviAccoustics

Windows forms and MFC UI, settings the audio settings in registry for different channels

Mytaptrack

ESP32 button interface, multicolor led interface and OTA implementation, factory reset, Audio recording with MIC interfaced with ESP 32,

SIMRacingPro-GAMS

iHolidayiinternational

**KVCH Pvt. Ltd. Sec 2 NOIDA**

**Designation - Embedded Engineer**

**Duration - February 2014 to March 2016**

**Company Profile:**

Development of embedded and robotics products.

**Responsibilities:**

Responsible for development of embedded products.

**Projects:**

* ECG machine
* Finger Print based attendance system
* GPS and GSM based Vehicle tracking system
* GPS based location display system for Buses
* Gyroscope and accelerometer based self-balancing systems.
* Computer’s mouse control by external touchpad using Bluetooth

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| **Nippon Audiotronix Ltd. Sec 10 Noida**  **Designation - Executive engineer**  **Duration - November 2012 to November 2013**    **Company Profile:**  Product development and trading of Automobile security systems and Audio system like speakers, Air bag controller, speed sensor, central locking system controller, door lock system controller, central locking system remote, shock sensor, Reverse parking assistance system, etc. based on PIC18F series microcontroller from microchip.  **Responsibilities:**  Responsible for development of automobile security products.  **Projects:**   * Shock sensor development. * Development of Key less Entry system (KLES), door lock system controller, remote, shock sensor etc. based on PIC18F series microcontroller from microchip. * Information transfer to production department for every new or modified product. * Software and hardware modifications of Products as per the customer (Maruti Suzuki India Limited M.S.I.L.) requirements.   **KC Robotics and Embedded Pvt. Ltd.**  **Sec 62 Noida**  **Designation - R&D Engineer**  **Duration - February 2010 to October 2012**    **Company Profile:**  Development of embedded and robotics products.  **Responsibilities:**   * Circuit designing and Gerber data generation. * PCB development outsourcing. * Testing and launching new products.   **Projects:**   * I2C-LCD, RTC, AVR programmer, LCD shield for Arduino, Arduino Duemilanove board, GPS receiver, RFID with RS232 and TTL interface , USB to TTL Interface card, * Accelerometer, Gyroscopic, Analog-IR, Ultrasonic, Heartbeat, Vibration, Piezoelectric, Light, Sound, gas, temperature, alcohol sensor.   **Educational Qualifications:**  **Personal Information:**   |  |  |  |  | | --- | --- | --- | --- | | **Degree** | **College/ School** | **Percentage %** | **Year of passing** | | B. Tech (EC) | S.I.E.T. , Gr. Noida , UPTU | 65.82 | 2008 | | Std. 12th (U.P. Board) | S. B. Inter. College, B.B. Nagar (BSR) | 74.44 | 2003 | | Std. 10th (U.P. Board) | S. B. Inter. College, B.B. Nagar (BSR) | 60.10 | 2001 |  |  |  | | --- | --- | | **Father’s name:** | Devendra Kumar Sharma | | **D.O.B:** | 1st January 1987. |       Signature……………  Date………………… |
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