SHAIK IMRAN

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5 years 8 months of experience in Embedded software application development and I am currently **Mirafra Software Technology** Since **11-02-2022** as Senior Software Engineer.

I worked at **PurpleTalk India Pvt Ltd** from **13-08-2018** to **11-01-2022**, as Embedded application software Engineer. In this period, I worked on **NRF52**, **ESP32** and **ESP8266** boards.

Professional Experience:

1 year 8 months of experience in Client location (**Qualcomm**)
3 months of experience in Client location (**AMD**)
3 years 4 months of experience in **PurpleTalk**.

***Professional Summary*:**

- ✓ Hands on working experience in C and Data Structures.
- ✓ Having knowledge in IPC's i.e., Pipes, FIFO, Shared Memory and Message Queue.
- ✓ Having knowledge on Threads, Mutex, Semaphores and process.
- ✓ Having knowledge on FreeRTOS.
- ✓ Having knowledge on SPI, UART and I2C protocols.
- ✓ Having knowledge on BLE GATT and GAP
- ✓ Having basic knowledge on Python.
- ✓ Having knowledge on lauterbach Trace32/JTAG.
- ✓ Having knowledge on Perforce/P4 version control tool.
- ✓ Having knowledge on JIRA ticketing tool.
- ✓ Requirement gathering and feasibility analysis.
- ✔ Knowledge transfer to new team members.

***Technical Skills*:**

Programming Skills	: C and Data Structures, Basic knowledge Python.
Operating systems	: Linux (Ubuntu), MAC and Windows.
IDES	: Arduino, Eclipse, Segger Embedded Studio and VScode.
Debugging Tools	: lauterbach Trace32/JTAG.

PROJECT - 1:

- Convex frame work development and Bug fixes.
  - Worked on test case development for drivers.
  - Validating those test cases on bare metal by using the test framework.
- Worked on Board bring up activities like
  - mmu_init, clock_init, pmic_init and ddr_init
- Framework changes for the new RTL emulation builds.
- Concurrent use case executions.
- Worked on memory mapping for individual modules.
- Driver updates and framework incremental releases.
- Minor changes/issue fixes in CMM flow.
- Porting of framework SOC to SOC.

PROJECT - 2:

- **Project** **:** Glowe
- **Platform** **:** NRF52 Custom board (Hardware).
- **Language** **:** C
- **Tools Used** **:** Eclipse, NRF52 SDK
- **Protocols** **:** I2C and UART.
- **Communication** **:** Bluetooth Low Energy
- **Debug Tool** **:** JTAG
- **Domain** **:** Wearable
- **Role** **:** Firmware Application Developer.
  - Worked on PWM for generation of vibration.
  - Worked on custom Bluetooth UART Service.
  - Created specific data packets to transfer data from BLE device to mobile and vice versa.
  - Worked on I2C to save device Configurations.
  - Integrated UART for debug prints.
  - Worked on LED pattern creation for display.
  - Worked for OTA for firmware updates.

Glowe project is a combination of mobile application and Glowe wearable hardware. Glowe mobile application which can be paired with Glowe wearable hardware. enables users with a unique way of communication using Colours, Vibration Sound patterns with close friends & relatives.

PROJECT - 3:

- **Project** : Airvent
- **Platform** : ESP32 based Custom board.
- **Language** : C
- **Tools Used** : Eclipse and ESP32 SDK
- **Protocols** : I2C and UART.
- **Communication** : WiFi
- **Domain** : House Hold Appliances
- **Role** : Firmware Application Developer
  - Worked on SPIFFS for data saving and restoring
  - Used I2C protocol for reading and writing the temperature sensor values and also for saving WIFI passwords.
  - Integrated UART for debug prints.
  - Worked on FOTA for firmware updates.
  - Used JSON for data exchange between mobile and controller.
  - Worked on WIFI Station mode and ACCESS point mode for connecting to the central WIFI.

Airvent project provides a complete line of attic ventilation products. One among them is the Whole House Fan that is used to help hot air escape through attic and in creating a more comfortable environment inside the house for the user. Airvent wanted a solution where their customers can operate the fans from the connected network which is inside the warehouse.

PROJECT - 4:

- **Project** : THIM
- **Platform** : NRF52 based Custom board.
- **Language** : C
- **Tools Used** : Eclipse and NRF52 SDK
- **Protocols** : I2C and UART.
- **Communication** : Bluetooth Low Energy
- **Debug Tool** : JTAG
- **Domain** : Wearable
- **Role** : Firmware application Developer.
  - Worked on custom Bluetooth UART Service.
  - Worked on I2C to save device Configurations.
  - Integrated UART for debug prints.
  - Worked for OTA for firmware updates.

THIM is the sleep-tracking ring, which is more than sleep data. THIM delivers real improvement. A smartphone App is required to operate your THIM device. The App is also used to store and view your sleep data – so you can track progress over time.

BLE (Bluetooth Low Energy) experience:

I have Worked on Bluetooth Low Energy application layer and have some basic Knowledge on Gatt (Generic Attributes), GAP (Generic Access Profile), BLE Services. BLE Advertisement, Connection Parameters.

Educational Qualifications Details:

- B.Tech Electronics and Communication Engineering in Kuppam Engineering College Chittoor, Andhra Pradesh with 70.6%.
- 12th from International Institute of Information and Technology (IIIT) KADAPA, Andhra Pradesh with 76.4% .
- 10th Zilla Parishat High School (Boys) KADAPA, Andhra Pradesh with 89%.

Significant Strengths

- Strong analytical and logical skills with a knack of getting solutions to problems
- Ability to work in team as well as individually to achieve goals.

Personal Details

Father's Name	:	Mr. SHAIK MOHAMMED HANIF
Mother's Name	:	Ms. SHAIK JUBEDA
D.O.B	:	18 April 1994
Languages	:	English, Telugu.

I hereby declare that the information provided above is certainly true as per the best of my knowledge.

DATE: Yours Faithfully

PLACE: Hyderabad SHAIK IMRAN