AKBAR SALEEM T

E-mail: [akbarsaleemtakkasila@gmail.com](mailto:akbart471@gmail.com)

Contact no: 9676377225

**CAREER OBJECTIVE**

To be a successful professional in the field of technology and to work in the most challenging position with an organization that provides ample opportunities to learn and to contribute.

**PROFESSIONAL SUMMARY**

* Experience in developing firmware to embedded system and experience in design, development, testing and implementation of embedded systems.
* Hands on experience in Integrating ,debugging and testing trusted application in trustzone(OPTEE) .
* Hands on experience in **Assembly and C programming**.
* Thorough understanding of **Linux system programming**, **hands on experience of Linux Kernel and Device drivers Programming.**
* Working experience in **flashing Linux U-Boot kernel and root file system images to ARM board and testing and git .**
* Knowledge of **GNU tools and utilities**.
* Knowledge on **UART, I2C, SPI protocol.**
* Knowledge on **charecter drivers .**
* Worked on **8051, ARM7** based boards.

**PROFESSIONAL EXPERIENCE**

* Working as Software Engineer at **Votary SoftTech Pvt. Ltd** since June 2018.

**TECHNICAL SKILLS**

* Programming Languages: Advanced C & DS, Embedded C, Basic Python.
* Linux System Programming : Basic I/O calls, File Operations, Memory management,

Process management, Threads, IPC mechanisms, Signals.

* Linux kernel &device driver: Linux OS internals & OS concepts, Porting, character drivers( UART, I2C).
* Communication Standards : I2C, UART and SPI.
* Tool chain : GCC, GDB, Build root, obj dump,
* Developing tools : Keil.
* Operating Systems :Linux (Ubuntu).
* Version control tools : git

**EDUCATION QUALIFICATION**

* M.Tech in EMBEDDED SYSTEMS at AITS Rajampet 2017.
* B.Tech in ECE at AITS Rajampet 2015.

**PROJECTS:**

**MSM8909/8905**

**Hardware and software tools used** : LYF mobile, Qflash tool, Ubantu 14.04 version.

**Roles and responsibilities:**

* Downloaded source code from github.
* Built that source code for LYF mobile .
* Flashed LYF mobile using Qflash tool.
* Verified build version and applications working in LYF mobile .

**Secure frame work for ARM Trustzone**

**Hardware and software tools used:** RPI3 board, gtk terminal, gdb , QEMU.

**Description :**

* This frame work used to work on different platforms(different secure OS like OPTEE, QEE).
* Implementing this frame work to platform independent.
* This frame work configure the application to particular platform based on request.
* After configuring to particular platform the application processed according to its requirement.

**Role and responsibility** :

* Developped application in C language .
* Written application for finding OS information.
* Tested this application using QEMU.

**Weather Monitoring System .**

**Organization : AITS**

**Hardware:** LPC2148, Temperature sensor, Humidity sensor, GSM Module,LCD.

**Tools:** Keil μVision.

**Description:**

* The project involves designing and developing for collecting and monitoring climatic condition.
* It send data by using GSM module and climate details displayed on LCD screen.

**Roles and Responsibilities:**

* Interface Multiple Sensors to respective controller.
* Developed Source Code for sensors using Keil μ Vision.
* Sensors and GSM modules are interfaced with ARM board
* Capture the data from sensors and send data with the help of GSM module.

**Automatic** **Crop Monitoring Using Embedded System**

**Organization: AITS**

**Environment:** Embedded C, ARM Keil, Flash magic, RS232 cable.

**Hardware:** ARM7 (LPC2148) controller board , Soil moisture sensor, Temperature sensor, Rain sensor, PIR sensor, Co sensor, RFID module, LCD, Motor pump, GSM, Electrical fence, Connecting cables.

**Description :**

* This embedded system built around LPC2148 microcontroller, motor pump, soil moisture sensor.
* The motor pump operates based on soil condition that is soil wet or dry.
* The temperature and dangerous CO gas also verified by using different sensors connected to controller.
* By using electrical fence, RFID module, and rain sensor and GSM module crop protected from wild animals, thieves, diseases and sends information to owner.

**Role & Responsibilities:**

* Interface Sensors to LPC2148 controller.
* Developed Source Code for sensors using Keil μ Vision.