AKBAR SALEEM T

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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

- Around 1 year 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 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).
- 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 .

Uniform Platform for Trusted Application

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.

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.