**ANUSHA LAGADAPATI**

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**CAREER OBJECTIVE:**

Looking forward to an opportunity to prove myself in a challenging environment and contribute to the development of the organization with the best of my abilities.

**PROFESSIONAL SUMMARY:**

* Around 8 months of work experience as an **embedded developer**.
* Hands on experience in **C** and **Linux system**  programming.
* Work Experience on debugging tool **GDB.**
* Extensively Used version control Tool **GIT.**
* Having knowledge in **Linux Kernel** and **Linux Device Drivers.**
* Having knowledge in **UART, I2C, and SPI** Protocols.
* Work Experience on **ARM Trust Zone** technology.
* Worked on **ARM Cortex-A5X** soc for **ARM Trust zone.**
* Experience on **ARM CortexM4** architecture to develop embedded c projects.
* Built **Qualcomm-MSM8909/8905** source code and flashed it on **LYF Mobile** using **QFLASH** tool.
* Practiced on **Hackerrank** andearned **700 hackos.**

**ACADEMIC PROFILE:**

* M. Tech in Embedded Systems fromVignan’s Lara Institute of Technology and Science,Vadlamudi completed in the year 2016 with an aggregate of **73.8%.**
* B. Tech in ECE from Chebrolu Engineering College, Chebrolu completed in the year 2014 with an aggregate of **74.04%.**
* Intermediate in MPC from Sri Chaitanya Junior College,Guntur completed in the year 2010 with an aggregate of **88.4%.**
* SSC from Z.P.H School, Narakoduru completed in the year 2008 with an aggregate of **86.3%.**

**PROFISSIONAL EXPERIENCE:**

Currently working as Software Engineer in **Votary Softech Pvt Ltd.**

**TECHNICAL SKILLS:**

**Programming Languages :** C, Embedded C, Shell Script.

**Linux System Programming :** Socket Programming,IPC,

Process, Threads.

**Protocols :** UART, SPI and I2C.

**Linux Device Drivers**  **:** Character Device Driver

**Tools :** GDB,GIT,Strace, Cscope.

**Operating System :** Linux,Windows.

**PROFESSIONAL CERTIFICATIONS:**

* Pursued **“PG DIPLOMA IN EMBEDDED SYSTEMS AND IOT”** at **Kernel Masters.**
* The project ‘Implementation of gesture based voice and language translator for dumb people’ is published in **IEEE (978-1-5090-1066-0/16/$31.00 ©2016)**.

**PROJECT DETAILS:**

**CURRENT PROJECT :**

* **Title:** “**Uniform platform for Trusted application**”

**Role :** Developer

**Hardware platform :** Raspberry pi3

**Tools :** QEMU

**Description:** To develop a Votary Execution Environment (VEE) library for ARM Trust zone using OPTEE which will support any platform like Trust Zone Execution Environment(TEE), Qualcomm Execution Environment(QEE), X Execution Environment (X – Any) (XEE).

**Responsibilities**:

* + Worked on OPTEE source code for understanding secure data path.
  + Wrote own trusted application in trust zone to communicate from normal world to secure world.
  + Added own handler in OPTEE to configure the framework depending on platform.
  + Developed Votary Secure Framework for Trusted Applications.

**PROJECT :**

* **Title:** “**MSM8909/8905**”

**Tools :** QPST tools(QFLASH,QFIL,QCN).

**Hardware platform :**Qualcomm MSM8909 processor withARM cortex-A7 soc.

**Responsibilities:**

* Initial log analysis.
* Support for bug fixing to internal team for the client project.
* Maintenance and testing of source code.

**INTERNSHIP PROJECT :**

* **Title: “Attendance monitoring system”**

**Tools :** Keil software.

**Hardware platform :**TM4C123,GT511C.

**Description:** Attendance system uses finger print scanner technology which identifies and authenticates the fingerprints of an individual in order to access the presence and absence of an individual.

**Responsibilities:**

* Study of GT511C data sheet and understand functionality of GT511C.
* Study of TM4C123 data sheet and understand functionality of TM4C123.
* Analyzing the connectivity between TM4C123 and GT511C.
* Developed the frame formats for every command.

**ACADEMIC PROJECT 1:**

* **Title: “A wireless multi-patient health monitoring system using RFID and GSM with automatic doctor alerting through SMS”**

**Tools :** Keil software.

**Hardware platform :****8051,HRM-2511B**.

**Description:** To design of a simple, low-cost controller based wireless heart beat monitoring with temperature sensing system and this information will be wireless carried to doctor by using GSM Technology.

**Responsibilities:**

* Understand theFunctionality of RFID,GSM,HRM-2511B.
* Analyzing the connectivity among 8051 ,HRM-2511B,RFID,GSM.

**ACADEMIC PROJECT 2:**

* **Title: “Implementation of gesture based voice and language translator for dumb people”**

**Hardware platform :**Raspberry pi,MPU6050.

**Description:** This project proposes a system that converts gestures given by the user in the form of English alphabets into corresponding voice and translates this English voice output into any other Microsoft supported languages.

**Responsibilities:**

* Study of Raspberry pi data sheet and understand functionality of Raspberry pi.
* Study of MPU6050 data sheet and understand functionality of MPU6050.
* Analyzing the connectivity between Raspberry pi and MPU6050.
* Developed algorithm to identify the gestures.

**Place:**

**Date : (L.Anusha)**