**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(1-Year):**

* **One year** 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.
* Hands on experience in **QPST(**Qualcomm Product Support Tool) and  **QXDM** (Qualcomm EXtensible Diagnostic Monitor).
* Practiced on **Hackerrank** andearned **700 hackos.**

**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.

**Version control tool :** GIT.

**Simulation Software :** GCC.

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

**Operating System :** Linux,Windows.

**PROFESSIONAL EXPERIENCE:**

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

**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.
  + Tested Votary Secure Framework with examples.

**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)**.

**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%.**

**PROJECT DETAILS:**

**PROJECT 1:**

* **Title:** “**Wearable**”

**Role :** Developer

**Hardware platform :** Raspberry pi3,SIM808.

**Description:** To develop a Smart wearable device to monitor the disable people. By using one Android app any one can monitor the disable person (who is wearing this smart device) movements and health condition like BP, Heart Rate.

**Responsibilities**:

* + Downloaded the Android source code from GIT.
  + Controlled Mobile phone by using AT commands through minicom..

**PROJECT 2:**

* **Title:** “**Board bring up of** **MSM8909/8905 chip set**”

**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)**