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| **Candidate Name** | Anusha Lagadapati |
| **EXPERIENCE** | 1 year |
| **Profile Highlights** | C, Linux System Programming, GIT, Device Driver basics, Socket Programming, Shell Scripting, Python basics. |

**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 **one year** of work experience as an **Embedded Engineer**.
* Hands on experience in **C** and **Linux system**  programming.
* Work Experience on debugging tool **GDB.**
* Hands on experience on version control Tool **GIT.**
* Having knowledge in **Linux Kernel** and **Linux Device Drivers.**
* Having knowledge in **UART, I2C, and SPI** Protocols.
* Having knowledge in **Shell scripting** and **Python basics**.
* 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** source code and flashed it on **QRD** using **QFLASH** tool.
* Having knowledge in **QPST** and  **QXDM**
* Practiced on **Hackerrank** andearned **700 hackos.**

**PROFESSIONAL EXPERIENCE:**

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

**TECHNICAL SKILLS:**

**Programming Languages :** C, Embedded C

**Scripting Languages**  : Shell Scripting, Python basics

**Linux System Programming :** Socket Programming, Inter Process Communications(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, QFLASH, QXDM, QPST

**Operating System :** Linux,Windows.

**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%.**

**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:**

**PROJECT 1:**

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

**Company :** Votary Softech Pvt Ltd

**Hardware platform :** Raspberry pi3

**Tools :** QEMU,GIT

**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**:

* + Clone the OPTEE source code from GIT repository. Compiling the source code and flashing the images into Raspberry pi.
  + Reporting/Resolving compilation issues while building OPTEE.
  + Maintaining and creating GIT branches.
  + Resolving merge conflicts.
  + Pushing stable source code into Git remote repository.
  + 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 Trusted Applications

**PROJECT 2:**

* **Title :** “**Wearable**”

**Company :** Votary Softech Pvt Ltd

**Hardware platform :** Raspberry pi3

**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**:

* + Controlled Mobile phone by using AT commands through minicom.
  + Developed code to scan bluetooth devices using Raspberry pi.
  + Developed code to send messages from Raspberry pi to Android phone and vice versa through bluetooth.

**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.

**CONTACT INFORMATION :**

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