

Abhijeeth Srivastava

Email: abhijeet.srivastava2308@gmail.com

Phone Number: +91 8887614862

OBJECTIVE

To work for an organisation where I can grow as an engineer and as an individual by contributing towards the aim of the organisation.

PROFESSIONAL SUMMARY

- ☐ 2+ years of experience specializing in the field of Embedded Systems with 2 year 1 month relevant Industrial experience and 1 year internship.
- ☐ Currently working as an Embedded Software Engineer with Inventum Technologies.
- ☐ Worked as an Intern trainee at Emblogic Competency & Research Labs
- ☐ Comfortable with respect to programming in **C** & implement **Data Structures**.
- ☐ Comfortable with Synchronization Mechanisms: **Semaphores, Mutexes**.
- ☐ Good Understanding of the concepts of **POSIX Threads** and their implementation.
- ☐ Comfortable with using **mosquitto-libraries** and setting up **MQTT** servers for secure and unsecure communication.
- ☐ Good command on **Bash**.
- ☐ Able to develop and understand **Makefile**.
- ☐ Basic understanding of **Linux kernel boot process**.
- ☐ Comfortable with using **git**.
- ☐ Able to do **Board bring-up** with **OpenWRT** and **LFS**.
- ☐ Basic understanding of **uboot**.
- ☐ Comfortable with **Inter Process Communication (IPC)** concepts : **Pipes, FIFO, Message Queues, Shared Memory**.
- ☐
- ☐ Comfortable with **Socket Programming** in **AF_UNIX & AF_INET** Domains.
- ☐ Understand **Device Driver** Architecture, Device registration, initialization, map routines with calls.
- ☐ Basic knowledge of **Static Code Analysis** using SonarQube
- ☐ Basic Knowledge of **Device Tree**.

KEY SKILLS :

C, Linux Administration, Shell Scripting, Network Programming using Sockets & IPC, mosquitto-library, pcap-library, klish.

PROFESSIONAL EXPERIENCE

Inventum Technologies Pvt. Ltd

Embedded Software Engineer

May 2019 to present(2 years)

Responsibilities:

- ☐ Managing Custom and Standard packages for OpenWRT based Operating System.

Standard Packages: coova-chilli,openVPN,arp-scan,tcpdump Custom

Packages: custom MQTT client, XML based CLI

- ☐ Adding features to enhance wireless and wired capabilities of OpenWRT based wireless routers.
- ☐ Exposing these enhanced capabilities via XML based CLI and MQTT client-server setup
- ☐ Programming the custom MQTT client to enable/configure/monitor various features of OpenWRT based Wireless routers.

Libraries Used: lib-mosquitto,lib-jansson.

Language: C

- ☐ Setting up uboot environment in order to tftpboot kernel and file-system to the Wireless access point routers.
- ☐ Setting up MQTT server
- ☐ Providing documentation and high quality reports.
- ☐ Board bring-up using LFS(Linux From Scratch).(POC)

Emblonic Competency & Research Labs

Intern(Trainee)

January 2018 to December 2018(1 year)

- ☐ Character Driver based Parallel Port Device Driver Development
- ☐ Development of Linux Character Device Driver
- ☐ Client-Server model implementation using Sockets and Thread
- ☐ Client Server communication using Inter Process Communication Techniques: using Message Queues, Shared Memory, pipes, FIFO)
- ☐ Multiple Data Compression and Encryption using Iterative Techniques

ACADEMIC CREDENTIALS :

- ☐ M.Tech (ECE)2019 from Vikrant Group of Institutions ,Indore(RGPV) (M.P.)(7.98 CGPA)
- ☐ B.Tech(ECE) 2012 from United College of Engineering and Research, GREATER NOIDA, GBTU). (64.8%)
- ☐ Class XII in (2007) from Bishop Johnson School & college, Allahabad. (71.3%)
- ☐ Class X in (2005) from Bishop Johnson School & college, Allahabad.(78.4%)

PERSONAL INFORMATION

Name:

Abhijeet Srivastava

Permanent Address:

226029

10c/385 Vrindawan Colony Telibagh Lucknow-

Current Address:

A-120 Sector 92,Noida-201305