NAME: BASAVA PRABHU Ph no. 7795158856

Email id: basavaprabhumugali@gmail.com

Linkdin: https://www.linkedin.com/in/basava-prabhu-mugali-215bb512a/

Career Mission

 Having good knowledge as well as good experience on Kernel, Device Drivers and I want to grow in field of Linux Device Drivers.

Summary

- Currently working in Sasken Technologies Ltd. in field of Kernel, Linux Device Driver Developer.
- Having 6 months experience in **Vector India** as an Embedded Software Programmer.
- Good understanding and hands-on experience in **porting and fine-tuning** of Linux into different platform.
- Qualcomm based device **Board bring up** and kernel issues resolution.
- Proficient in Qualcomm based Android system software development
- Hands on experience in **Linux Operating System Internals, Linux Device Drivers**.
- Hands on experience in **Linux kernel Customization Build**, driver **integration**, managing different system images and flashing.
- Good programming skills **in c, c++, shell scripting** having capability to capture system information using Proc File System and utilities available.
- Hands on experience of general and Android debugging tools like git, GDB, adb, fastboot, minicom, cscope, printk, valgrind, Klocwork and several other tools.
- Dynamic and positive attitude towards work.

Technical Skills

| Skills | Deep knowledge of C , Embedded C , C++ ,Data structure & Algorithms , git , microcontroller 8051,Linux System Programming , Linux utilities , Linux Operating System Internals , Linux Device driver . Communication protocol: UART, I2C, SPI. | |
|---------------|---|--|
| Device Driver | System level programming , kernel level programming , char, device driver , file systems , | |

| procfs, sysfs, ioctl, Interrupt s– workques, tasklets, |
|--|
| synchronization techquies- atomic operation, mutex |
| , spinlock , memory management , linux debugging . |

Professional Project

| Project | Emergency Shutdown | |
|-------------|---|--|
| Description | Prevent memory corruption on abrupt power off by shutting down the system with reduced power off time. System to power off in less then 2 sec before the backup power goes off. | |
| Role | · · · · · · · · · · · · · · · · · · · | |

| Project | Linux Porting on Qualcomm msm8996 device | |
|-------------|--|--|
| Description | As a part of Android build, needed to upgrade Linux from 4.4 to 4.14 and board bring-up with Linux 4.14. | |
| Role | Linux from 4.4 to 4.14 and board bring-up with | |

| Project | Telematics | |
|-------------|--|--|
| Description | Maintaining whole telematics boards(H/w) builds against static analysis issues. Generating FOSSID report and fixing security CVE's. Bug fixing for general issues. | |
| Role | Generating FOSSID report and fixing | |

Learning Projects

| Project Name | Description | | |
|---|---|--|--|
| Designing GPIO driver for Raspberry pi Board | Developing GPIO driver with basic functions and doing IOCTL . | | |
| Linux Porting on SDM845 | Porting and fine-tuning Linux as required and board bring-up with that image. | | |
| Designing C preprocessor | Design and development of C preprocessor trying understanding the compiler functions and difficulty level of design of those functions. | | |

Education Qualification

| Course | Institution | Board/University | Percentage | Year of Complet ion |
|----------------------------|--|-------------------------|-------------------|---------------------------|
| Embedded System Design | Vector India | Vector India | - | 2019 |
| Bachelor of Engineering | S.G.Balekundri Institute of Technology | VTU, Belgavi | 68% | 2018 |
| Higher Secondary | kendriya vidyalaya | CBSE | 73% | 2014 |
| High School | kendriya vidyalaya | CBSE | 8.6 CGPA (82%) | 2012 |

Personal Details

| Fathers Name | S.S. Mugali | |
|-----------------|--|--|
| Mothers Name | Jayashree Mugali | |
| Date of Birth | 21/04/1996 | |
| Address | C/O S.S.Mugali , Sahyadri nagar , Belgavi, Karnataka , 590019 | |
| Nationality | Indian | |
| Languages Known | English, Hindi, Kannada | |
| Hobbies | Watching and Playing sports (Boxing), Hanging out | |

| ואברו | 2r21 | tιΛ | n. |
|-------|-------|-----|----|
| Decl | aı aı | uu | |

I hereby declare that above information is correct to best of my knowledge and belief.

Place: Bangalore Date:

Basava Prabhu