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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** the 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**, support for new peripherals, 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, cscope, ctag, printk , logcat , valgrind , Klockwork and several other debugging 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 , Interrupt s– workques , tasklets , synchronization techquies- atomic operation, mutex , spinlock , memory management , linux debugging .

Professional Project

Project	Linux Porting on Qualcomm msm8996 device
Description	As a part of Android build, needed to upgradeLinux from 4.4 to 4.14 and board bring-up with Linux 4.14.
Role	- Understanding whole boot-up sequence and bring up board in same fashion. - Porting of drivers. - Debugging kernel issues and working in CLI. - Kernel Customization build. - Compilation, managing Android full build and working on Android layers. - Working in Qualcomm Kdev environment. - Booting with various RootFS like Initramfs, Ramdisk. - Flashing images and sanity test.

Project	Telematics
Description	Maintaining whole telematics boards(H/w) builds against static analysis issues . Generating FOSSID report.
Role	- Running static analysis Klocwork tool on source build. - Communication with different teams and passing on respective component issues to teams. - Merging and propagation of gerrits to respective branch and respective SI's. - Testing patches on local build against static analysis and sanity test. - Generation of FOSSID report .

Learning Projects

Project Name	Description
Designing GPIO driver for Raspberry pi board	Developing GPIO driver with basic functions and implementing new features with **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.

…many more.

Education Qualification

Course	Institution	Board/University	Percentage	Year of Completion
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

<u>Declaration:</u>

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

Place: Bangalore   **Date:**

Basava Prabhu