

ABHISHEK KUMAR

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Career Mission

- Having good Knowledge of Device driver, I want to grow in field of **Linux Device Driver** and **Firmware**.

Summary

- Currently I am working in **Sasken Technology** as a **Device Driver Developer**.(Feb-19)
- 2 years of professional experience in embedded software programming in **Valeo india private ltd**.(Mar-2017 to Feb-2019)
- Good understanding and hands on experience of Linux Porting.
- Good understanding and hands on experience of Linux kernels drivers.
- Good programming skills in C with primary skills Linux and Linux Device Drivers.
- Developing **programs** in **C** having the capability to capture system information using Proc file system.
- Good knowledge of Data structure.
- Good understanding of system level debugging using Gdb (core dump analysis).
- Good knowledge of hardware protocols like SPI, I2C, UART.
- Extensive experience on microcontrollers such as, ATmega-8, 16, ARM & Audrino.

Technical Skills

Skills	Deep knowledge of C, Embedded C, Linux Device Drivers, Communication Protocols: UART, I2C, SPI,Socket programming IOT, Data Structures & Algorithms, Linux Programming, kernel programming, operating system, ARM, AVR, git, jenkins server.
Device Driver	Virtual char device ,file system in linux,virtual file system, Interrupt, ioctl, procfs, sysfs, workqueue, tasklet, kernel thread, spinlock,Block device,pci,Network device,memory management, linux debugging.

Professional Project

PROJECT	The design of touch screen driver based on Linux input subsystem
Description	A kind of resistive touch screen driver was developed based on input subsystem in kernel of Linux 2.6 and higher. The touch screen driver can properly capture the information of touching coordinates and up/down state. This touch screen driver can be easily applied in the eembedded GUI systems such as android, Qt, miniGUI.

PROJECT	KYOCERA SMR
Description	I am responsible for analysis and regression testing of kernel Security patch released by Qualcomm.

PROJECT	I2C DRIVER DEVELOPMENT
Description	<ul style="list-style-type: none"> • Understanding the I2C registers for target platform • Writing a framework independent low level I2C driver • Enhancing the low level I2C driver to interface with EEPROM. • Understanding the Linux I2C Framework – I2C Adapter, Client and Algorithm • Understanding the Adapter and Client registration and probe flow • Writing a I2C Adapter and Client driver • Writing a I2C Client driver for peripherals such as EEPROM

PROJECT	Embedded Linux Porting
Description	I was working on Boot-up Sequence of Embedded Linux, Booting with various RootFS like Initramfs, Ramdisk, Exploring the Kernel bootargs.

PROJECT	Continuous integration
Description	I was working in git and Jenkins server. Continuous Integration (CI) is a deployment practice where developers integrate code into a shared repository frequently. Each integration can then be verified by an automated build and automated test

Academic Project

PROJECT	Smart Train Information Broadcast Devices for metros/subways
Description	As an alternative to the conventional and Energy Consuming train information display systems, this new era device is based on ARM Cortex M3 based processor along with Wi-Fi interface to take data from server side about the train and display it on an android app through broadcasting the information via (Bluetooth Low Energy(BLE)).

Educational Qualification

Course	Institution	Board/ University	Percentage	Completion Year
PG-Diploma in Embedded System Design	C-DAC's Advanced Computing Training School Hyderabad	CDAC		2017
Bachelor of Engineering	Swami Keshvanand Institute Of Technology, jaipur	RTU Kota	61.55%	2015
Higher Secondary	MILLIA CONVENT ENGLISH SCHOOL,Purnea	CBSE	64.40%	2010

High School	Saraswati Vidya Mandir,Purnea	CBSE	73.61%	2008
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Personal Details

Father's Name	Mr. Ramesh Prasad Keshri
Mother's Name	Veena Devi
Date of Birth	August 8, 1993
Address	C/ O-Ramesh Prasad keshri,Bus stand Banmankhi,Purnea,Bihar-854202
Nationality	Indian
Languages Known	English, Hindi
Hobbies	Watching and playing cricket, listening music

Declaration:

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

Place: Bangalore

Date:

Abhishek kumar