

## CURRICULUM VITAE

**NAME**

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### OBJECTIVE

A systematic, organized, hardworking and dedicated team player with an analytical bent of mind with good academic credentials. I am a qualified B.E in Electronics and Communication Engineering India with 4.7 years of experience across Design & Development using Embedded Android Linux Security features looking for learning advance and depth study in the field of **Computer Programming and Electronics**.

### ACADEMIC QUALIFICATION

Course completed	Name of the institution	Board	Year of passing	Percentage scored
Bachelor of Engineering Electronics and communication	Adichunchanagiri Institute of Technology, Chikmagalur	Visvesvaraya Technological University	2013	71.82%

### BRIEF CAREER SUMMARY: MARCH 2014 -TILL DATE

- Working in Qualcomm India Pvt Ltd as Engineer (Core BSP team, Software Developer)
- 4.7 years of experience in embedded system (core BSP)
- Have Good Experience and Programming knowledge in C & Embedded C.
- Worked on all MSM (MSM8998.), APQ 8053.) and MDM Qualcomm flagship chipset
- Hands on Experience on Android Security Features
- Hands on experience on Complete modules on Embedded Android Development
- Experience on CORTEX-M3/ ARM9/ BCM2835, OMAP-L137 Processor.
- Excellent understanding of embedded system architecture and have involved in a team that develop the low-level drivers for peripherals like SPI, UART, timers etc
- Board bring up for Linux and Android Linux platform
- Hands-on Linux Device Drivers

### Key Skills Set

- Microcontrollers : ( LPC17xx/21xx)BCM2835,OMAPL138/7, Sam9260- Ek Evaluation board ,Beagle Bone, Arduino, Raspberry pi. Altera Cyclone V
- Languages : C, Embedded 'C'.DSPBIOS.LINUX
- Compiler IDEs : MBED COMPILER, KEIL, IAR CCSV6. Lauterbach, QFIL, T32
- Development Platform : Linux -Android/Linux
- Communication Protocol : USB, SPI, I2C

### PROFESSIONAL PROJECTS:

#### Project 1: Android System Kernel Security Features Development on Qualcomm Chipset

- Company : Qualcomm India Pvt Ltd
- OS/Platform : Android Linux
- Language : Embedded C

- Hardware Board : Complete Qualcomm Chipset
- Duration : March 2017 to till Date

**Description:**

Android System Kernel Security Involves Modules

**ARM-Trust Zone, FDE (Full Disk encryption) Key master Authentication, Verified Boot, DRM (Digital Rights management) Android SE Linux Policy**

**Roles Responsibilities:**

- Development of Application related to Testing features Involving ARM Trust Zones
- Module wise Knowledge of HAL and complete Subsystem application Development
- C HAL Applications Development compatible with Google specification
- Developed Android Application Interfacing Android-JNI-C -Device drivers Interface
- Expertise in DRM Widevine security Level 1 features debugging Features
- Hands on experience on reproducing Customer issue and provide FIX on time
- Complete Android Device Bring up
- Hands on experience on Drivers related to QSEE (Qualcomm secure execution environment)
- Involved in Testing OF Google specification Suites (GTS, VTS, STS) google approval test

**Project 2: Smart Relay (Automatic Firmware Updation (Linux &Rtos- IOT)**

- Company : Quest Global Engineering Pvt. Ltd
- OS/Platform : Linux (Angstrom 4.1)/FreeRtos (ultron Toppers)
- Language : Embedded C
- Hardware Board : Altera Cyclone V
- Duration : September 2015 to February 2017

**Description:**

Toshiba Fuchu needs a cloud-based solution for managing & support for firmware binaries updating for the relay in its customer base.

Toshiba needs remotely managing an update and downloads of software or application patches on Toppers FMP RTOS environment

**Roles Responsibilities:**

- Development of Linux Application for the communication between Linux and Rtos
- Validation of Toshiba Intercom APIs for interaction Between Linux and Rtos
- Development of Linux Application for updating of binaries on Linux
- Supported Rtos firmware application coding for interfacing between Linux and Rtos

**PROJECT-5: Liquid Flow Measurement**

- Company : Kartel technologies
- OS/Platform : Firmware
- Language : Embedded C
- Hardware : lpc1768
- Tools : mbed compiler
- Duration : March 2014 to September 2015

**Description:**

The project developed for liquid flow measurement in automotive. This project consists of a display system, Liquid flow sensor pulse detection and sending measured data i.e., liquid level to display.

**Roles & Responsibilities:**

- Worked as a software trainee and integrator.
- Worked as a Hardware integrator and tester.
- Application and unit testing

**PROJECT-6: Bare Metal Driver For Raspberry PI(Free RTOS)**

- Company : Kartel technologies
- Languages : Embedded C
- OS/Platform : Firmware
- Hardware : Raspberry PI(BCM2835)

**Description:**

The project developed drivers for the raspberry pi. Development of Drivers (I2c, Spi Uart), for raspberry pi with FREE RTOS.

**Roles & Responsibilities:**

- Worked on porting Free RTOS to the raspberry PI
- Implemented Linux based customized driver for UART, SPI and I2C

**ACADEMIC PROJECT:**

“QUADCOPTER DATA ACQUISITION”: In order to obtain high end compatible devices for defense and commercial application of data acquisition.

**Roles and Responsibilities:**

- Derive requirements for the board or chip level
- Define internal interfaces between parts of the electronics
- Implement the design in hardware
- Test the software; Implement corrections as necessary.

**ACHIEVEMENTS**

- Presented a seminar on “VIRTUAL REALITY” in the national level IEEE presentation.
- Worked EVENT MANAGER in many conferences under IEEE.

**INNOVATION COMPETENCIES**

- Quick learner.
- Good at working individually as well as in a team.
- Dedicated and disciplined and thrive to learn more.

**PERSONAL DETAILS**

Name : XXXXX  
Father's Name : ██████████.H.H  
Mother's Name : ██████████  
Date of Birth : 12<sup>th</sup> Jan 1991  
Sex : Male  
Nationality : Indian  
Languages Known : Kannada, English.

**Declaration**

I hereby declare that all the above-mentioned information is true and correct to the best of my knowledge.

NAME