



George Koruthu premium Featured



Staff Engineer seeking roles in Application Development, Firmware Development, Linux device driver development, C Programming, defect management, de-bugging, Team Management, L2 Network Protocol (802.11) Development, Quality Management, Service Delivery

Current Designation: Staff Engineer
Current Company: Mediatek
Current Location: Noida
Pref. Location: Bengaluru / Bangalore, Chennai, Hyderabad
Functional Area: IT Software - Application Programming / Maintenance
Role: Team Lead/Tech Lead
Industry: Semiconductors/Electronics
Marital Status: Single/unmarried
Key Skills: Staff Engineer, Team Lead, Application Development, Firmware Development, Linux device driver development, C Programming, defect management, de-bugging, Team Management, L2 Network Protocol (802.11) Development, Quality Management, Service Delivery
Verified : Phone Number

Last Active: Jan-Mar 2021 Last Modified: Jan-Mar 2021

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Summary

- * A goal-oriented professional with 9+ years of experience in Linux Device Driver/Application/Firmware Development, L2 Network Protocol (802.11) development (+6 Year) and Team Management
- * Expertise in Linux device driver/application development and L2 network protocol(802.11) development
- * Proficiency in working with data path and control path of WiFi drivers; Skilled in IoT WiFi firmware development
- * Experienced with working WiFi ASIC's; proficient in working with Openwrt based router SDK
- * Skilled in overall application development life-cycle involving requirement analysis, system study, designing, architecture, testing, programming, coding, de-bugging, defect management, status reporting & documentation
- * Strong communication, interpersonal & technical skills with the capability to grasp new concepts quickly and utilize the same in a productive manner

Work Experience

Mediatek as Staff Engineer
Jun 2014 to Till Date

Key Responsibilities:

- * Leading a team of 4-5 resources and providing assistance; leading Status Meeting, Code Review and Design Discussion
- * Performing feasibility studies to validate capability and functionality; creating new concepts from initial design to market release
- * Calculating development tasks and setting up plans for deliverables on release deadlines

Project: WiFi Easy Mesh Turnkey Software Development

Role: Linux application, device driver development

Highlights:

- * Worked as the team lead for software quality cycles.
- * Design and development of turnkey features such as client steering, channel planning etc.

Project: WiFi 802.11 ax/ac ASIC Development for Wireless AP routers

Role: Linux device driver and firmware development

Highlights:

- * Developed WPA3 and Enhanced OWE for repeater mode.
- * 802.11 ax (WiFi 6) feature development for BSS color.
- * Feature qualification for WPA3, TGac and Tgn certifications.
- * IGMP feature development for repeater networks.
- * 802.11R Fast bss transition and 802.11KWW.

Project: WiFi 802.11 af TV White Space ASIC Development for Wireless AP routers

Role: Linux application, device driver and firmware development

Highlights:

- * Developed TV White Space (TVWS) feature for IEEE 802.11af (800Mhz) and IEEE 802.11ah (900Mhz) standards.



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- * Developed Linux application to query channel validity information from Geolocation database (GDB)
- * Worked with chip development from FPGA stage to ASIC.
- * Implemented QA tool for chip verification.
- * Incorporated WLAN driver with router board SDK package

Project: IoT Gateway ASIC Development

Role: WiFi Firmware development on FreeRTOS

Highlights:

- * Participated in the development of WiFi firmware on ARM CM4 platform
- * Developed customer features

• MRO-TEK Ltd as Firmware Engineer

Apr 2011 to Jun 2014

Project: Router with WAN (E1) interface

Role: Linux application and device driver development

Highlights:

- * Contributed in the Implemented loopback functionality for performing WAN port diagnostics
- * Provided & added BCM tag support as per BCM53101M for ethernet driver
- * Developed the final production and test procedures for the product using interactive software
- * Participated in the development of PPP Driver
- * Executed IOCTL calls for accessing FPGA memory (PCI controller mapped onto FPGA) for application to access to FPGA
- * Worked & implemented SPI driver for accessing flash memory chip

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Education

UG: B.Tech/B.E. (Electrical Engineering) from New Horizon College Of Engineering - Bangalore, Karnataka in 2010

PG: MBA/PGDM (Embedded Systems Design) from CDAC-ACTS, Bangalore in 2011

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IT Skills

Skill Name	Version	Last Used	Experience
Linux device driver development			
L2 Protocol development(802.11)			
FIRMWARE DEVELOPMENT			
C PROGRAMMING			

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Languages Known

Language	Proficiency	Read	Write	Speak
english				
hindi				
german				

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Affirmative Action

Category: General

Physically Challenged: No

Work Authorization

Job Type: Permanent

Employment Status: Full time

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