Hemanthkumar G K

Senior Software Engineer

CAREER OBJECTIVE

A Senior Software Engineer with an experience of 10+ years in embedded software development with good understanding of C and C++ programming, Linux internals, threads, inter-process communications, deadlocks, concurrency control and RTOS concepts with exposure to the complete Software Development Life Cycle.

EDUCATION

B.E. in Computer Science & Engineering (CS & E) from VTU (2008 – 2012), AIT Chikmagalur. Visvesvaraya Technological University Karnataka, India.

CONTACT

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Work Experience

Working as a "Senior Software Engineer III" in Cisco India.

Worked as "Senior Software Engineer" in Harman International and "Senior Software Engineer" & "Software engineer" in Platform and Multimedia group from July 2013 to June 2017 (Worked as a consultant at Intel mobile communications) in Global Edge Software ltd, Bangalore.

PROFESSIONAL SKILL SET

Languages: C, C++ basics

Operating Systems: Linux, ThreadX, Sys-Bios

Technologies: Linux programming and Internals, Multi-threading, IPC,

Knowledge on Various Unix commands and System Calls

Tools: GDB, GNU Toolchain, Lauterbach, CCS, Source insight, Klocwork, GIT,

Clearcase, Flashtool, Coverity tool, Code collaborator, Bugzilla, Perforce

PROJECT DETAILS

Project Name

Network Security Firewall (ASA,FTD), Firepower Management Center(FMC)

Organization Cisco India

Role Software Engineer III

Duration May 2019 – Current

Team size 10

Environment Linux

Description Part of Platform Team and implementing the platform level software for Next

Generation Firewall(NGFW) and handling the multiple use cases & improving the

product quality by implementing features in each releases.

Fixing the issues which causes packet drops, networking performance and crashes etc.

RESPONSIBILITIES Also involved in multiple projects and handling the firmware customization & releasing

the firmwares to customers and working on next generation FMC platform.

Coding / Development / Debugging and fixing issues

Functional Testing, Scripts modification

Project Name Rear View Camera(RVC)

Organization Harman International

Role Sr Software Engineer

Duration July 2017 – 2019

Team size 3

Environment Linux, Sys-Bios

Description Implementing the rear-view camera features for car and handling the multiple use cases

based on the received CAN message in Android core side. Handling the camera driver in

DSP core to handle the camera feed data, by communicating with Android core.

Fixing the issues which causes camera view distortion, crash issues, implementing rear

view parking assistance, implementing the new features as per the customer request and interacting with HMI layer & Diagnostics team to handle the car rear view camera feature.

RESPONSIBILITIES

- Coding / Development / Debugging and fixing issues
- Functional Testing, Scripts modification

Project Name Audio driver (Consultant at INTEL MOBILE COMMUNICATIONS)

Projects: XMM7160, XMM7260, XMM7360, XMM7480 ,IBIS and XMM7560

Organization Intel Mobile Communication

Role Development Engineer

Duration March 2015 – Jun 2017

Team size 5

Description

Environment Linux, ThreadX

Implementing core audio driver functionalities and handling modem related functionalities for 2G/3G/4G calls and data handling with DSP and Network layer (Protocol stack). Bring up the Audio Driver on new Intel platforms & DSP booting, developing features according to customer requirements (enhancements), debugging with Lauterbach, GDB and fixing audio issues, analysing the Core dump to find out the

cause of crash.

RESPONSIBILITIES

- DSP bring up
- Coding / Development / Debugging and fixing issues
- Functional Testing, Scripts modification

Project Name Android Playback

Organization Global Edge Software Ltd.

Role Development Engineer

Duration March 2014 – Feb 2015

Team size 3

Environment Linux

Description Integration of H264 hardware decoder into android multimedia framework such as

Stagefright to achieve full HD playback. Integrated hardware decoder for MPEG4/3GP

which contains the AVC video format and AAC audio format.

RESPONSIBILITIESInvolved in integrating the hardware accelerator.

■ Implemented OMX interface to interact with H264 HW decoder.

Understanding of OpenMax.

 Understanding of Stagefright framework components such as Awesome Player, Stagefright Player, OMX Codec.

EDUCATIONAL DETAILS

B.E in Computer Science & Engineering with 70%, 2012

Adichunchanagiri Institute of Technology, Chikmagalur

PUC with 62.83%, 2008

Govt Junior College, Chikmagalur

SSLC with 79.84%, 2006

Vinayaka high school, Kalasapura

Training Attended Global Edge Software Ltd Training Program

Duration 6 months

Topics C and Data Structure

Software Engineering, UNIX programming and Internals

Linux Device Drivers, Multi-threading

Networking [TCP/IP protocol suite] Socket Programming

Knowledge on Various Unix commands and System Calls

Personality Development [Self Awareness, Time Management, Team Work]