

Shyam Krishnan Moni

SDE II Amazon Video

Summary

10 years of experience in Multimedia, Audio and Android in Embedded domain in Semiconductor Industry(AMD, ST-Ericsson, Freescale).

C, C++, Assembly Level Programming-ARM11, ARM9, Android

Patent in MP3 Huffman decoding.

Skilled in Android HAL, Openmax, Audio Codecs.

Hands on in Android Porting.

Strong communication skill, Analytical mind and Leadership Qualities.

Experience

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August 2016 - Present

Software Programmer as a Consultant at Seachange Intl

June 2015 - August 2016 (1 year 3 months)

Client Seachange International: Multimedia Middleware Solutions

- Implemented and developed a Prototype for MP4 parser in C++.
- Captured requirements to support Media source extension-MSE for HTML5
- Implemented Unit Test module.

- Implemented module to support encrypted recordings in Set-top-box
- Used NAGRA DRM to manage credentials by interacting with the secure chipset driver.
- Configured DMA and aligned buffer for accurate transformation

Member of Technical Staff at AMD

June 2013 - June 2015 (2 years 1 month)

Audio vertical Design:

High level design of various software components

Implementation of the changes that are expected in the newer Android release KitKat.

Presenting the design in the design summit organized at product level to various stake holders involving
Android architects, Fellows, Directors
Coming out with all the tools required for the subsystem
GIT infrastructure modeling for Audio and guidance for team on development.
C++ object oriented implementation to realize Open-Max standard interface

Senior system Engineer at ST-Ericsson

September 2009 - June 2013 (3 years 10 months)

Android HAL porting for audio subsystem

Software Engineer

June 2009 - September 2009 (4 months)

Prototyped Video Conferencing product by offloading x264 codec in hardware

Engineer at Freescale Semiconductor

April 2006 - May 2009 (3 years 2 months)

Developed algorithms for codecs including mp3,aac,sbc and amr.

Patented one of the huffman decoding algorithm.(<http://www.google.com/patents/US7773003>)

Made use of ARM11 assembly level programming including SIMD to achieve efficiency.

Software Engineer at Aricent

January 2005 - May 2006 (1 year 5 months)

Previously known as Flextronics Software Systems. Designed and implemented a logging module for all software subsystem. Required various inputs from software stack stakeholders to complete the requirements. The implementation was done in C programming

Assistant System Engineer at Tata Consultancy Services

June 2005 - January 2006 (8 months)

Maintained different large scale customer deployed website. Implemented various solutions in Java involving object change for an issue in order and delivery.

Education

Coimbatore Institute of Technology

Bachelor of Engineering (BE), Electrical, Electronics and Communications Engineering, 2001 - 2005

Activities and Societies: Volleyball, Dramatics-DanceTeam

Honors and Awards

Bravo Award

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[Contact Shyam Krishnan on LinkedIn](#)