

Trimurthulu Amaradhi
Phone: 9739421958
trimmu@gmail.com
Designation:Solution Architect

Resume

Current organization: KPIT, Bangalore
Software industry Experience: 18 years

Previous organization: Gaian Solutions, Accenture bangalorer ,Sasken Communications Technologies, Bangalore. Samsung India Software Center, Noida, AZingo soft systems India pvt ltd, Hyderabad, L&T InfoTech Ltd, Bangalore, PACE Soft Silicon Pvt Ltd (currently NVIDIA) Pune

Teaching experience: Around 3 years as Lecturer in VRSEC,Vijayawads(Nov 98-2001 July)

Software Development Experience Summary:

Android cobra Radio - development

Integrating the android auto on TI jacinto6

Analyzing the car Dash board cluster issues and using the BMW tools like carmen. Using the DLT tool.

Designed Architecture and implemented the Android IPTV

Designed architecture of industrial IOT with Azure cloud and Android Application

Implementation and Created the OPC client architecture

Created architecture for json engine which connects with Android phone/Tablet

Created architecture for home automation.

Created the architecture for media player for mobile using gstreamer.

Integrating the Open Zwave and making the connected home use case as a part of internet of things.Design and development of OPC Client using OPC UA for industrial IOT(Industrial Internet of things).Designed and developed the software for the Samsung still Camera (DigiCam) and added the take picture with usb camera on panda with jally bean android. Implemented RTMP media streaming protocols and integrated onto the Gene multimedia framework. Implemented the RTSP plugin with the gstreamer which is the multimedia framework available in the Linux operating system for the mobile phone chip sets. These protocols were tested on the different targets x86 as well as ARM using scratch box. DLNA (ushare server) ported on to the Samsung still Camera to work as a server. Implemented the Motion Estimation, Intermacroblock mode selection, and scene change analysis algorithms to H.264 encoder. Worked with video coding, audio coding, optimization and porting of real audio decoder (.ra), wma decoder, Mpeg-4 BSAC audio Decoder on ARM 946ES processor. Bug fixing in the helix multimedia framework and testing it on mobile phones .Added the WM-DRM support to Android ICS.

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- ❖ Writing the Applications with SDL(Simple Direct Media Layer)
- ❖ Designed and developed Capture framework of still camera software
- ❖ Added the parallel programming methods to capture framework using openMP.
- ❖ Ported the DLNA server (DMS) onto ARM target and tested with upnp using vlc player.
- ❖ Designed and developed RTMP client protocol and integrated to GMF.
- ❖ Designed and developed Multi-Media Streaming using Gstreamer for Samsung pc to pc communicator software.
- ❖ Designed and developed RTSP Streaming and integrated to multimedia framework gstreamer in Linux.
- ❖ Ported Media player which was developed using gstreamer on to the ARM platform.
- ❖ Added the code for video scaling for the media player using gstreamer
- ❖ Generated profiling for the media player
- ❖ Float to fix conversion of mp3encoder for ARM946
- ❖ Integration of BSAC decoder to Hardware setup.
- ❖ Porting and Optimization of BSAC audio decoder onto ARM 946ES
- ❖ Porting and Optimization of WMA decoder onto ARM 946ES
- ❖ Porting and Optimization of Real audio decoder onto ARM 946ES
- ❖ Designed and developed **Motion Estimation Algorithm** for the **H.264 encoder**
- ❖ Designed and developed Macro block inter-mode selection algorithm for the **H.264 encoder.**
- ❖ Designed and developed scene change analysis for the H.264 video encoder.
- ❖ Bug fixing of Mpeg-4 video decoder on the TI OMAP 1510 processor using code composer studio which was added in Motorola mobile phone.
- ❖ Linux porting onto the **OMAP-1510.**

Technical Skill Set

Automotive	Android auto, Car Play, Android Radio, Cluster
Multimedia framework	Gstreamer in Linux, Helix, Gen Multimedia framework (Samsung prop.) Android stagefright
Audio Codecs	Real media audio, WMA, BSAC, Mp3 Encoder
Video Codecs	H.264 encoder, Mpeg-4 video decoder

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Languages	C, C++,Java Assembly Language for ARM and DSP
Operating systems	Windows xp, Linux, Vxworks
Streaming Protocols	RTSP,RTMP,DLNA, UPNP,HLS,Mpeg-DASH
Tools	TI Code composer studio, Code warrior, Trace-32, clear case, Clear quest, Visual Studio-6, Visual studio-2005, Wireshark, eclipse, Andriod Studio,git,gdb Scratch box
MultiCore	Intel x86 dual core
Embedded Hardware platforms	PC,TI OMAP 1510,ARM 946-ES, Samsung-24A0, TI OMAP-850,TIjacinto6
GUI	Qt
Virtual Machine	Qemu
Cameras	Android Camera,(HAL) Digital Camera
Internet of Things	OPC UA Client, ZigBee, Industrial Automation, Openwrt, Open Zwave Integration.

Educational Qualifications:

- ❖ **M.Tech:** Digital Electronics and Advanced Communications
- ❖ **Duration:** (Aug2001- May2003)
- ❖ **Major subjects:** **DSP,ADSP,DSP Processors, Digital signal compression (Video Compression, Audio Compression) and wavelets And Applications**
- ❖ Manipal Institute of Technology, Manipal
- ❖ **B.Tech:** Electronics And communication Engineering.(March1995-June1998)

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- ❖ V.R.Siddhartha Engineering College, Vijayawada.
- ❖ **M.Tech:**Digital Electronics and advanced communications,MIT,Manipal(Aug-2001 to May-2003)
- ❖ **Academic Projects:**
- ❖ White Blood cells classification using conceptual graphs (M.Tech project done at the **UNIVERSITY OF KAISERSLAUTERN, KAISERSLAUTERN, GERMANY**)
- ❖ Plotting of the conceptual graphs for the white Blood cells and used the fuzzification Technique for classification.
- ❖ **Language used:** C++
- ❖ **Operating system:** Linux,
- ❖ **Tools:** KDE.
- ❖ **GUI:** Qt
- ❖ Thesis was done at **UNIVERSITY OF KAISERSLAUTERN, KAISERSLAUTERN, GERMANY.**