

Ranjith Kumar Kalisamy

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Strip kumarranjith & reverse as ranjhithkumar.

Add a . between [h, k] & [l, c] pairs & an @ between [r, g] pair.

<http://www.ranjith.com>

Objective

Seeking an ambitious position in Mobile platforms with emphasis on Graphics domain where my skills & experience will add value to operations.

Brief Profile

About 10 years of extensive experience in Embedded, Mobile & Hand-held Systems, specially in the areas of Graphics & Multimedia.

Has thorough knowledge of EGL 1.4, OpenGL ES 1.x/2.0 & OpenVG 1.1 Graphics standards.

Has understanding & working experience in Graphics middleware & Adreno GPU drivers in Android & BREW/BMP.

Worked in VxWorks for Text to Speech Systems using USB speakers.

Knowledgeable in MPEG2 Systems layer & DirectFB Standards.

Undertaken & successfully completed varied tasks such as GPU bring-up, Driver development, Application development, Integration of 3rd party software into frameworks & Customer support.

Have lead a team of 6 engineers to commercialize Adreno Graphics drivers on three different Mobile SoCs.

Employers

Qualcomm CDMA Technologies, Hyderabad, India

From April 2006 to till date.

Toshiba Embedded Software (*formerly SoCrates Software*), Bangalore, India

From August 2002 to April 2006.

Skills

Languages: C, C++, JAVA, Assembly Languages of MIPS & ARM

Scripting Languages: Python, Batch files, Shell, Matlab

Technologies: SVG Tiny, OpenVG 1.0, EGL 1.4, OpenGL ES 1.x, OpenGL ES 2.0, SurfaceFlinger, Gralloc, MPEG2 Systems layer, DirectFB

RTOS: VxWorks, REX

OS Platforms: Linux, Android, Windows Mobile 6.5, BREW Mobile Platform

Tools: Debugger for MIPS, Toshiba MPI ToolChain, Visual Studio 6.0, Platform Builder, Trace32 Debugger for ARM, GIT, Gerrit, Repo, Perforce, CVS, Eclipse, Android SDK, Android NDK, OProfile, GNUPlot, GDB, Valgrind, Vim

Education

Master of Science in *Computer Science*, **Illinois Institute of Technology**, Chicago, USA.
Graduated in May 2012.

Bachelor of Engineering in *Electronics & Communication*, **Coimbatore Institute of Technology**, Coimbatore, India.
Graduated in March 2002.

Projects

(snipped)

mRTOS (Mini RTOS)

Module: Scheduler, Memory Manager, Timers, Semaphores

Role: Designer, Developer

Team Size: 3

Duration: 1 month

Details: mRTOS was done during my on-the-job training programme at Toshiba Embedded Software. mRTOS had all general features of a Real Time Operating System; viz: Scheduler, Memory Manager, Timers, Semaphores & MailBoxes. A time critical application was also developed using the APIs of mRTOS.

Contributions:

- Involved in the design of Scheduler & the Task Context.
- Implemented Semaphores, Timers & Memory Manager for mRTOS.
- Contributed towards mRTOS Feature list & source code management.

References

(snipped)