ANATOLY YAKOVENKO

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SUMMARY

Software developer with over 10 years of experience working on performance critical features for embedded and real time operating systems, shipping software on millions of units, developing patents, leading projects and contributing to large groups including Linux Kernel, with a focus on test driven development and object oriented design.

SKILLS

Hardware and Systems

- Embedded Operating Systems, RTOS, Linux Kernel, Android, Qualcomm MSMs, ARM, Hexagon DSP

Languages and Tools

- C, C++, Haskell, Make, Lua, Bash, Python, Ruby, Java, Perforce, Git, GDB, JTAG, Trace32

WORK EXPERIENCE

Qualcomm, San Diego CA

Senior Staff Engineer Manager, 2015 to Present
Senior Staff Engineer, 2012 to 2015
Staff Engineer, 2008 - 2012
Senior Engineer, 2006 - 2009
Engineer, 2003 - 2006

Advanced Technologies Group

- Lead Architect on a team of 10 for high performance DSP off-loading software stack on Qualcomm chipsets for next-generation applications.
- Commercial applications include Augmented Reality, Virtual Reality, 3D Camera processing, 4K video post-processing, and GoogleX's Project Tango.
- Technology used by 3rd party developers from major OEMS, such as Samsung, LG, Google, Xiaomi, OnePlus.

BREW

- Core kernel developer for BREW's Operating System.
- Built critical features such as application sand-boxing, kernel containers, device driver framework, IPC stack, system call tracing tools, IDL compilers.
- APIs and tools used by thousands of 3rd party developers, code shipped on hundreds of different handsets and in millions of units.

QChat

- Software developer for server components of a Push2Talk service.
- Implemented network protocols such as SIP/RTP/HTTP, and high performance logging and tracing tools for a large distributed system with over 40 components.

Alescere LLC, Lisle IL

Co-Founder, 2001 to 2003

- Founding member of [Alescere](#), a VoIP startup
- Lead development of SIP and [RTP](#) protocol stacks and server components for a VoIP system for small businesses.

University of Illinois at Urbana-Champaign

Research Assistant, 2003

- Developed a web server that supports QoS for HTTP requests
- Designed a probabilistic scheduler for the Linux kernel
- Implemented a roaming protocol for 802.11a/b networks for NetBSD

Personal Interests

- [Machine Learning](#) and functional programming.
- Underwater hockey - 2012 USA Elite Team!

References

- Brian Kelley, Senior Director of Technology, bkelley@quicinc.com
- Rob Walker, Senior Director of Engineering, rwalker@quicinc.com
- Ramesh Chandrasekhar, Senior Director of Engineering, rameshc@qti.qualcomm.com

EDUCATION

Bachelor of Science in Computer Science

University of Illinois at Urbana-Champaign, 2003