

ANATOLY YAKOVENKO

aejakovenko@gmail.com | [GitHub](#) | [LinkedIn](#) | [resume](#)

SUMMARY

Software developer with over 10 years of experience in embedded operating systems, shipping software on millions of units, developing [patents](#), leading projects and contributing to large groups including [Linux Kernel](#), with a focus on performance and optimization for Qualcomm ARM and DSP processors.

SKILLS

Hardware and Systems

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

Languages and Tools

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

OpenDSP

- Lead Architect of a brand new technology for utilizing DSP subsystems on Qualcomm chipsets for next-generation high-performance applications.
- Commercial applications include Augmented Reality, Virtual Reality, 3D Camera processing, 4K video post-processing, and GoogleX's Project Tango.
- Technology used by all major OEMS, such as Samsung, LG, Google, Xiaomi, OnePlus.

BREW

- Core kernel developer for BREW's Operating System.
- Built critical features such as application sandboxing, device driver framework, interprocess communication, system call tracing tools, IDL compiler for network transparent objects.
- Shipped to thousands of different handsets and in millions of units.

QChat

- Software developer for server components of a Push2Talk service.
- Implemented various 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 Research

- Neural Networks, Genetic Algorithms, Markov Models, and Bayesian Inference Algorithms

References

- Brian Kelley, Senior Director of Technology, bkelly@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