

Brian Jung Myeng Lee

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EDUCATION

Honors Bachelor of Mathematics (Computer Science)

University of Waterloo, Waterloo, Ontario, Canada, 2001 - 2006

TECHNICAL SKILLS

Developer, OS Platform Support, Research In Motion, LTD.

June 2009 - present

- Participated, documented and lead QNX bring up for the next generation of BlackBerry operating system as a member of a team of three; involved in continuous technical development, training and support in areas such as driver design, development road-map, gate-keeping Perforce and build system using GNU Make and Perl
- Initiated discussions on moving from Windows to Linux as a development platform for future BlackBerry OS development; completed initial support by working with a build system specialist.
- Provided technical support for PlayBook to help peers in troubleshooting boot up issues as well as driver development on QNX; also acted as a main technical contact between RIM and QNX for general technical inquires as well as build system
- Helped to maintain bootrom, firmware loader, operating system initialization and drivers maintenance in C and ARM assembly as part of early OS bring up as well as reset analysis as a member of team of ten
- Involved in Marvell microprocessor silicon bring-up; identified a hardware bug with Marvell engineers and verified fixes in frequency change and low power mode in the following stepping of the silicon using JTAG
- Identified and filed a bug report against RealView Compiler regarding binary generation when "pld" instructions are used in inline assembly using disassembly dumps; initially analyzed and verified floating point support in disassembly in in the internal code base as well as third party graphics libraries
- Produced and tested builds with BlackBerry OS applications for platform devices by assisting in integrating ARMv7 MMU support; made the first phone call using a recent project device on a 2G network before the radio team. The same device was later used to demonstrate a phone call on a 3G network in China.
- Preferred proactive responses to users' requests and face-to-face communications over e-mail; located and provided prototype boards in shortage in person for members from other teams; resolved test firmware issues with manufacturing and radio teams in person
- Expanded internal documentation on Marvell Extreme Debugger scripting to minimize time consuming debugging cycle; documented instructions to build BlackBerry OS for prototype devices with little or no support from respective teams

Developer, Bluetooth, OS Protocols, Research In Motion, LTD.

October 2006 - June 2009

- Maintained and integrated third party Bluetooth stack in BlackBerry OS in C across multiple layers such as HCI, L2CAP, HFP, HSP, AVDTP, A2DP, AVCTP, AVRCP, RFCOMM and DUN while working with accessory vendors and career testing labs as a member of a team of three
- Helped CSR engineers to identify a hardware bug in CSR BlueCore chips by taking advantages of micro-kernel design over the span of one year
- Improved DUN throughput by a factor of two by applying micro-optimizations in C; performance was verified in a RF test chamber. RIM finally met a career's acceptance requirement for the first time since Bluetooth was available on BlackBerry.
- Improved source code base for easier debugging; focused on accurate error logs with relevant information, updated utility macros to correctly pin-point source of crash and enhanced readability of debug logs.
- Fostered close relationships with Java Bluetooth application team by attending bug report review meetings, sharing recent bug fixes and helping them debug Java application code when necessary
- Expanded internal documentation regarding subtle implementation details in the system, execution flow and general notes to help new hires. This document is in continuous use by the current Bluetooth team.