

Steve N. Niedzielski

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WORK EXPERIENCE

Engineer [Nov. 2009 -]

QUALCOMM Incorporated, Boulder, CO

- Led integration for USB, UART, and other technologies for all Windows Phone 7 platforms on multiple CI systems. Additional work on Windows Mobile 6.5 and future open source targets.
- Principal developer for upcoming USB peripheral driver. Further development contributions to Windows Phone 7 USB device driver.
- Designed test automation tooling for Windows Phone 7 and led on target code coverage analysis for USB and other teams. Leading test and automation on future product lines.
- Drove development of proprietary hardware / software for performance analysis and debugging.
- Developed tooling to enable developers to perform integrations. Created developer test plans.
- Mentored graduate student intern.

Software Engineer [May 2008 - Oct. 2009]

Nintendo Technology Development, Inc., Redmond, WA

- Member of the USB firmware development team. Worked at all layers from host drivers through client device drivers such as those for *Rock Band* and *Animal Crossing* peripherals.
- Worked on extensive test plans in software and external embedded devices for validating stack operation. Responsible for firmware build and release to internal developers.
- Contributed to build system development for Wii and next-gen console. Conducted research, developed scripts and makefiles, and setup Apache SVN and build servers.
- Designed demos and tools for Wii Shop Channel from eCommerce through SD card and file system storage.

COMPUTER SKILLS

Languages

- C / C++, Bash, Zsh, Make, Python, C#, Vim, HTML, CSS, Verilog

Software

- GNU toolset / Cygwin (Bash, Make, Cron, Grep, GCC, Vim, Sed, etc), Perforce, Visual Studio / MSBuild, Doxygen, Git, Bugzilla, JIRA, TRACE32

EDUCATION

B.S., Computer Engineering [Sep. 2005 - Apr. 2009]

DigiPen Institute of Technology, Redmond, WA

- Wrote embedded kernel for multiple MCUs.
- Designed, simulated, and built "Game Boy with vector graphics" using an FPGA and MCU.
- Developed USB device firmware and hardware.
- Worked on a wide range of hardware and software projects for PC and embedded systems at all levels of abstraction from solder level through C++.

HONORS & ACTIVITIES

QUALSTAR Hall of Fame [Aug. 2010]

- Awarded for exceptional contributions in Windows Phone 7 integration.

Specialized Course Offerings [Nov. 2009 -]

- Participated in training sessions led by experts in the field for subjects including Klocwork Static Analysis, C# for Mobile Devices, Windows Phone 7 Hands-on, Writing Windows Driver Foundation Drivers, and Lauterbach JTAG Debugging.

DigiPen Viewbook CE Graduate [Aug. 2009]

- Interviewed in DigiPen's viewbook highlighting remarkable graduates.

DigiPen Student Spotlight [Feb. 2007]

- Interviewed in the Student Spotlight article of the DigiPen Newsletter.