

Steve N. Niedzielski
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WORK EXPERIENCE

Software Engineer [May 2008 -]

Nintendo Technology Development, Inc., Redmond, WA

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

COMPUTER SKILLS

Languages

- C / C++, Python, Verilog / SystemVerilog, C#, Make, BASH, ColdFire, Z80, and PIC18 assembly, MATLAB, Regular Expression, EBNF, XML, HTML, CSS

Software

- Protocols and APIs: USB and OHCI, Win32, Winsock, I2C, RS-232, some OpenGL
- Tools: Visual Studio, Cygwin, GCC, Active-HDL, Quartus II, GDB, Make, CodeWarrior, Chameleon, EAGLE, Eclipse, uVision, MPLAB, IncrediBuild, Emacs, SVN, CVS, 3DS Max, Photoshop, Illustrator
- Developed for: Windows, Ubuntu Linux, Wii, GBC, GBA, and numerous embedded systems

Hardware

- Microcontrollers: TMS470, PIC18, ColdFire
- Other hardware: Cyclone II (FPGA), ISP1362 (USB controller), EZ-USB FX2LP (8051 MCU and USB controller), GAL22V10 (PLD), 7400 Series (logic gates and miscellaneous)
- Designed and implemented custom microprocessors.

EDUCATION

B.S., Computer Engineering [Sep. 2005 - April 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++. 3.29 / 4.00 GPA.

HONORS & ACTIVITIES

DigiPen Viewbook CE Graduate [Aug. 2009]

- Interviewed in DigiPen's viewbook highlighting exceptional graduates.

DigiPen Student Spotlight [Feb. 2007]

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

Annual Pacific Northwest Section of the Mathematical Association of America [April 2007]

- Co-presented a method of volume approximation using infrared and Riemann sums.

Dean's Honor List [Fall 2007, Fall 2008, Spring 2009]

- Commendation for distinguished academic accomplishment recognizing both quality and quantity of work.

DigiPen Student Ambassador [Spring 2006 - Spring 2008]

- Met with prospective students and introduced them to the CE program. Participated as an active student panel member in question and answer sessions.