

John (Jack) Miller
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Work History

Staff Software Engineer - Bare Metal Linux (BML)
IBM Linux Technology Center

Austin, TX
June 2008 - Present

- Overhauled, modernized, and maintained IBM's Linux lab infrastructure
- Wrote and upstreamed patches to Linux for IBM's PowerPC architecture
- Converted technical RFCs into working Linux/firmware code
- Debugged assembly in soft/hard simulation as well as silicon
- Wrote support for various platforms in OpenPower firmware (skiboot)
- Wrote core PowerPC automation software for SoftLayer
- Contributed to the OpenPower bootloader (petitboot)
- Provided Linux support for embedded PowerPC chips (WiiU aka Espresso)
- Ported complex projects from Perl to Python
- Worked closely with Research on experimental devices (WSP/CXL)
- Worked effectively with a three continent team of developers

Open Source Contributor

- Created Viridis, an experimental OS kernel (alpha)
- Created Canto, an ncurses RSS reader in Python and C.
- Contributed patches or plugins to DTC, MOC, and Python-markdown.

Education

Missouri University of Science and Technology
BS in Computer Science

Rolla, MO
May 2008

Skills

Languages: Fluent in C, x86/ppc64/SPU assembly, Lua, and Python. Familiar with C++, Perl, Lisp, and ARM assembly.

Tools: GNU toolchain (GCC, GDB, et al.), Git, CVS/SVN, bash, zsh, PCRE, vim, xmon, cscope, ctags, RiscWatch, OpenWRT, Busybox, crosstools-ng, find, grep, diff.