

**John (Jack) Miller**  
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## Education

**Missouri University of Science and Technology**  
Degree in Computer Science

**Rolla, MO**  
May 2008

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## Work History

### Lead Linux Programmer

IBM Linux Technology Center

**Austin, TX**

October 2011 - Present

- Lead kernel developer on prototype embedded PowerPC 6xx chip.
- Implemented workarounds for serious chip errata.
- Debugged several Linux based hardware exercisers from user to kernel space.
- Worked closely with hardware, test, validation, toolchain and simulation teams.
- Adapted kernel to run on bare metal (no firmware) simulator.
- Made regular, quick kernel releases with a basic OpenWRT-based initrd to all relevant teams.

### Linux Programmer

IBM Linux Technology Center

**Austin, TX**

June 2008 - October 2011

- Developed kernel drivers for PCIe card based on next-gen embedded SoC chipset.
- Developed kernel infrastructure for same SoC chipset (CPU hotplug, power saving chip features, EDAC, memory management).
- Ported entire SoC infrastructure to multiple kernel versions.
- Debugged kernel for bring up of multiple prototype devices.

### Open Source Contributor

Self

September 2007 - Present

- Linux work upstream: /arch/powerpc/platforms/wsp/opb\_pic.c
  - Wrote Canto, a feedparser based ncurses RSS/Atom reader written in Python and C and available in every major Linux distribution.
  - Wrote NRSS, Canto's simpler predecessor in C.
  - Various minor contributions to Music-on-Console and python-markdown.
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## Skills

**Languages:** C, x86/ppc64/SPU assembly, Python (2 or 3), PCRE, Shell (bash/zsh).

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