

# Vernon Mauery

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## Skills

**Programming Skills:** Linux device drivers, user interfaces, embedded systems development, porting, debugging

**Operating Systems:** Linux, AIX, HP-UX, Palm OS, Windows

**Development Tools:** CVS, SourceForge, git, VIM, GCC, GDB, crash, KDB, KGDB, DDD, Autotools

**Programming Languages:** C, C++, ASM (MIPS, x86, ATmega), Bash, Python, PHP, SQL, HTML, Java

**Interests:** DIY electronics, Amateur radio (N7OH), embedded programming, networking, food (eating and cooking), reading, music, outdoors, woodworking, learning stuff

## Experience

### 2006 to Present      **IBM: Linux Technology Center**      **Beaverton, OR**

- Worked on the Real-Time Linux team to get Enterprise Real-Time Linux running on IBM hardware
- Helped debug several networking issues in the -RT kernel (drivers, throughput bottlenecks, etc.)
- Reduced hardware latency working with BIOS and BMC teams to remove SMIs from select IBM platforms
- Rewrote the `ibm_rtl` driver and got it accepted into the Linux kernel
- Lead interlock meetings with SuSE's SLERT team and RedHat's MRG team to make sure that IBM had a good relationship with each vendor

### 2004 to 2006      **IBM: Linux Technology Center**      **Beaverton, OR**

- Work with a team of ten to support RedHat Linux and SuSE Linux on xSeries servers
- Worked to support `acpiphp` and `shpchp` drivers on xSeries hardware
- Led a small team to support OpenIPMI drivers and userspace program `ipmitool` on xSeries hardware
- Rewrote the `ibmasm` RSA I driver to use the kernel events subsystem

### 2002 to 2004      **Libstk: Open Source Set-top Box Toolkit**      **Provo, UT**

- Worked with a team of four core developers to design and implement Libstk
- Researched latest C++ programming techniques to create cross-platform widget set
- Uses Boost smart pointers and signaling, Freetype, and Überscript internationalization
- Designed to be platform independent (rendering and event subsystems)

### Summer 2002      **IBM: Extreme Blue Internship Program**      **Austin, TX**

- Worked on a development platform for IBM's NP4GS3 Network Processor
- Helped develop a software development suite for the NP4GS3
- Presented this product with my team to IBM top level executives

### 2000 to 2001      **Senior Project: Embedded Mobile MP3 Player**      **Provo, UT**

- Lead a team of three core developers to design and implement EMMP
- Built and presented a working prototype to the Engineering Department
- Project included over 20000 lines of code, custom kernel driver, custom user interface

## Education

### 1999 to 2004      **Brigham Young University**      **Provo, UT**

- April 2002      Bachelors in Computer Engineering      GPA 3.6
- April 2004      Masters in Computer Science      GPA 3.85

### Relevant Coursework

- Embedded and Real-Time Systems
- Operating System Design
- Computer I/O Systems
- Linux Kernel Internals (IBM course)
- Linux Device Drivers (IBM course)
- Linux Kernel Debugging (IBM course)