

# Michael Benedict

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## Profile

- Proven engineer whose successes range from keeping a multi-million dollar project on time to managing a company's premier product release
- Dedicated, conscientious team player with outstanding leadership and communication skills
- Technical expertise in **Real-time, Embedded, Middleware, Networking, Streaming Media, and Video Conferencing.**
- Programming experience in **C, C++, Java, SQL, Javascript, AJAX, Haskell, Ocaml, Scheme, Perl, Python, assembly, PHP, and shell.**
- Experience with **MacOS, DOS, Windows**, multiple **Unix** variants, and common office applications.

## Experience

### Senior Engineering Specialist - Aclara Technologies, Hazelwood, MO May 2006 - Present

- Ported link-layer protocol stack to Linux and DSP/Bios
- Wrote UART driver for DSP/Bios
- Became resident Linux expert for new Linux-based board release
  - Took on all release management responsibilities including design, development, and testing of a reliable, reproducible, backed-up build system
  - Designed filesystem layout and system initialization process and selected packages to distribute
  - Designed, Implemented, and tested new drivers in linux - UART, watchdog, LED, 4-segment digital display, Inter-processor communication driver, and more.
  - Fixed critical bugs in upstream Linux kernel
  - Instructed and tutored team-members on all levels of using Linux and memory protected systems in general.

### Senior Engineer - Starbak Communications, Waltham, MA October 2001 - May 2006

- Individual Contributor Accomplishments:
  - Designed, implemented, and documented the XMLRPC-based, SQL backed API and middleware for several products, implemented in C.
  - Extensively reworked a code and documentation generator in perl to support the above application.
  - Analyzed Linux's usb-serial driver to identify problem code. Identified and fixed problem areas, implemented associated debugging device driver, all ahead of schedule.
  - Implemented mp3 streaming through Microsoft Media Server Protocol on time.
  - Bug fixes and feature additions for the system console program in shell.
  - Created troubleshooting web page leveraging JavaScript to debug embedded MMS streaming data utilizing Windows Media Player.
  - Improved system build process, written in shell.
- Team Leadership Accomplishments:
  - Managed release cycle of the VCG, at that time the premier product offering - managed five other developers and three testers, delivered on time.
  - Promoted to manage System Integration team - team of three developers including myself
  - Successfully completed several varied tasks:

**Intern - Hewlett Packard, Dallas, TX June 2000 - December 2000**

- C and C++ programming on embedded, real-time product.
- Responsible for design and implementation of feature additions.
- Responsible for critical path bug-fixes with a hardware team on multi-million dollar Superdome project.
- experience with VxWorks OS and OS-less programming.

**Education****The Ohio State University, Columbus, OH**

- Computer Science Engineer major, Software/Hardware systems specialty with an overall GPA of 3.0.
- Vice President of the OSU Open Source Software Club .
- Presented on several topics for the OSU Open Source Software Club: L<sup>A</sup>T<sub>E</sub>X 2<sub>ε</sub>, GNU Programming utilities, Ocaml. Organized Open Source Software Awareness Day, Feb 17, 2000.