

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, Multi-threaded, GUI, Networking, I²C, USB, Streaming Media, and Video Conferencing.**
- Programming experience in **C, 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 Software Engineer - Mobile Armor, Chesterfield, MO, October 2008 - March 2009

- Maintained and enhanced Object-Oriented Graphical User Interface (GUI).
- Transferred to new project to fix critical-path bug in SUSE/Linux platform that gated customer acceptance testing.
- Implemented Linux boot loader detection and regeneration on host installation.
- Fixed numerous bugs in Mono/C# and C in preboot environment, kept projects on time.
- Responsible for maintaining and enhancing cross-platform C# and C++ libraries.

Senior Engineering Specialist - Aclara Technologies, Hazelwood, MO May 2006 - September 2008

- Ported link-layer protocol stack to Linux and DSP/Bios.
- Designed secure, TCP/IP and SSL-based protocol to replace link-layer protocol.
- Wrote UART driver for DSP/Bios.
- Became resident Real-time Linux expert for new Real-time Linux-based board release:
 - Responsible for prototyping and proof-of-concept work and documentation demonstrating how the platform would allow all performance criteria to be met.
 - Took on all software configuration 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, and more.
 - Co-Designed, implemented, and provided unit tests for real-time dual port RAM communication with external processor.
 - Designed, Implemented, and provided unit testing for BSP.
 - Designed, Implemented, and provided unit tests for real-time system logger with runtime tuning capabilities and lost message reporting.
 - 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.
 - Created customer-facing technical documentation of the public API.
 - 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.
 - Responsible for providing SNMP-Agent functionality for product family.
- 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.

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 August 1997 - March 2002

- Bachelor of Science, Computer Science Engineer, 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: $\text{\LaTeX} 2_{\epsilon}$, GNU Programming utilities, Ocaml.
- Organized Open Source Software Awareness Day, Feb 17, 2000.