Resumé of Michael FIG, PMP

http://michael.fig.org/resume/MichaelFIG.tex[1]

Highlights

Michael is a project manager and programmer analyst who specializes in refining and retrofitting existing software to solve new problems. His qualifications include:

- Practical sales-driven software development and project management.
- Extensive involvement in Free Software development on the Internet.
- Web application, systems programming and administration experience, with emphasis on network protocols, network security and software portability.
- Works well with others.

Personal Information

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Education

Formal

2005–present	Project Management Professional, Project Management Institute.
1995–1996	Undergraduate, Computer Science, University of Calgary.
1993–1995	Undergraduate, Engineering and German dual-degree program, University of Calgary.
1992–1993	International Baccalaureate Diploma, 33 out of 42 points. • Higher level: English, History of the Americas, Biology. • Subsidiary level: German, General Chemistry, Mathematics.

Informal

1993–present	Learned to program in several computer languages, including: assembly (Intel i386 (1994), Motorola m68k (1996)), Bourne shell (1994), C (1994), C# (2004), C++ (1996), Emacs Lisp (1994), Erlang (2006), Forth (2002), Haskell (2006), HTML (1994), Java (1996), Javascript (2002), LaTeX (1996), O'Caml (2006), Perl (1994), PHP (2002), Pliant (1999), PostScript (2000), Python (2002), Scheme (1999), SQL (2002), and Visual Basic 6 (2002). Learned software development cycle and maintenance techniques for small- to medium-scale projects, including distributed development over the Internet.

[1] The LaTeX source code for this resumé is available upon request. Share and enjoy.

Learned how to install, use, and administer several different operating systems, including: MS-DOS, MS-Windows (many flavours), AIX 4, Ultrix 4, SunOS 4, Solaris 2, FreeBSD, NetBSD, GNU/Linux (Slackware, Debian, Ubuntu, and Red Hat distributions), and GNU/Hurd.

Experience

2002–present **MarkeTel Systems, Inc.** *Sr. Developer*

Designed and implemented Pursuit Advanced Telephony Server software as a modified Asterisk PBX system managed by a complete Erlang/OTP release under Linux/i386. Wrote Pursuit client/server management software in C#.

Codesigned and coimplemented SuperScript, a PHP 4 survey questionnaire web application running on both Microsoft Windows and Linux/i386 platforms. Optimized SuperScript performance by changing network server from Apache to Yaws and reimplementing time-critical portions in Erlang.

Designed and implemented Slog 1, an internal TCP/IP client/server punchclock application using Visual Basic 6 and MySQL. Added a PHP 4 web interface to Slog. Codesigned and coimplemented Slog 2 as a TCP/IP and UDP/IP peer-to-peer network application in C#.

Redesigned and retrofitted an internal PHP 4 and MySQL customer relations management (CRM) web application.

Coimplemented proprietary soft-realtime telemarketing dialer firmware for the MKII dialer hardware using GCC for the embedded Motorola HC11 chip.

Codesigned and coimplemented the Grand Unified Firmware (GUF), a portable low-level predictive dialer switching software written in C initially targeting the original MKII hardware, the GMD hardware (based on an embedded Motorola MC68020 chip), and also running as a regular application on Linux/i386 using Intel Dialogic telephony card APIs.

Codesigned and coimplemented Prospector, a soft-realtime control system for proprietary dialer hardware, written in Visual Basic 6 and Microsoft SQL Server 7. Designed a custom messaging system to enable asynchronous calls between VB6 apartment threads in order to help guarantee responsiveness.

Redesigned and implemented Virtual Display, a free software TCP/IP network client for Prospector and Rapid Contact written in C++ using the wxWindows toolkit 2.4 on Windows and Linux/i386. Codesigned and coimplemented Virtual Display for Perl/POE/Curses, and Virtual Display Pro (in Visual Basic 6).

2002–2004 **Follow the System Marketing, Inc.** *Consultant*

Codesigned and coimplemented the Online System Manager, a web toolsuite for home-based business using Perl, mod_python, and PostgreSQL.

1994–2004 **The GNU Project** *Volunteer Contributer*

Submitted feature enhancements and bugfixes for several different free software systems, including: Automake, CVS, Emacs, Fetchmail, FreeBSD, the GIMP, GNU C Library, GNU Mach, Gnus, Hesiod, the Hurd, Kerberos 5, NetBSD, Pliant, RScheme, SANE, Stow, Texinfo, Wget, and Xmorph.

2001–2002 **Cluster File Systems, Inc.** *Consultant*

Learned the use of User Mode Linux in testing and debugging Linux kernel modules for InterMezzo, a free client/server network distributed filesystem.

Created RPM packaging for Lustre, another free network distributed filesystem. Used Tinderbox to manage an automated build and test suite for Lustre.

1998–2002 **Excel Consulting, Ltd.** *Consultant*

Worked for diverse clients as a computer consultant:

- Provided user training and application support.
- Installed and configured home PCs, printers, serial terminals, workstations, application servers, network proxies and firewalls, for both Unix-like and Windows operating systems.
- Wrote scripts to assist in system administration.
- Performed PC hardware upgrades and minor repairs.
- Ported a customer's internal Informix application from SCO XENIX to Linux/i386.

1998–2001 **The GNU Project** *Consultant*

Worked for the Free Software Foundation to help develop and distribute the complete GNU operating system, based on the GNU Hurd:

- Comaintainer of the subversions.gnu.org CVS server.
- Comaintainer of GNU GRUB, a flexible bootloader.
- Coauthor of the GNU Hurd Reference Manual.

2000–2001 **Mountain View Data, Inc.** *Consultant*

Designed and implemented a custom source build environment for InterMezzo.

Codesigned and implemented a Perl Sun RPC module, to replace InterMezzo's original custom network protocol.

1996–1999 **The GNU Project** *Volunteer Maintainer*

Designed, implemented, and maintained GNU Libtool, a multi-platform shared library creation script.

1996–1998 **Mercury Information Technology, Inc.** *Consultant*

Designed and implemented a cross-platform TCP/IP client/server remote procedure call system called WebRPC, which uses Java, C, and COBOL stubs to process secure transactions.

Designed and implemented Internet Banking solutions for two separate province-wide financial institutions using WebRPC.

Helped perform security audits for oil and gas companies in Calgary, and an Israeli financial institution. Responsibilities included:

- Diagramming existing computer network topology, and evaluating for potential weaknesses.
- Performing interviews of company personnel to discover perceived weaknesses and proposed solutions.
- Performing diagnostics of network servers, gateways, and dial-in machines. Writing and extending programs to automate these procedures.
- Documenting findings, determining risks, and recommending corrective measures.

1993–1997 **University of Calgary** *Programmer Analyst*

Designed and implemented a LAN of over 120 workstations running Red Hat Linux and Windows NT.

Designed and implemented a LAN of 48 Unix-based workstations, shared between undergraduate Electrical Engineering students. These machines ran Red Hat 3.0.3, and 36 of them were able to dual-boot to Windows NT.

Designed, implemented, and helped administer a heterogeneous LAN of over 70 Unix-based workstations, shared between 750 undergraduate Engineering students. About 20 of the machines ran FreeBSD 2.1.5; the others were DECstations running Ultrix 4.2.

Coadministered a small heterogeneous LAN for Civil Engineering. The network included SunOS 4 workstations, a central SunOS server, and several DOS and Macintosh-based PCs. Improved Unix security, redesigned topology for a new FreeBSD gateway, Red Hat Linux workstations, and plans for a large compute server (an SGI Origin 2000, installed in 1997).

References

Available upon request.