

# Nic Stevens

## Objective

I am seeking a position where I can put my various skills and talents to work, learn from new experiences and contribute to a company as part of a team. I would like to stay within the IT industry.

## Professional/Personal Information

I am a highly motivated professional who can put 110% into what I do. I work well alone and as a team player. While I have spent many years working on my own, experience in large companies shows me to be not only be a team player but a leader in the areas of my expertise.

## Summary of Skills

- General Skills
  - Interprocess Communication, Network/Socket Communication, and Communication Abstraction. Client-Server Development. Web Site Design using backend database technologies. Low-Level And Device Driver Programming, Concurrent Programming, Application Interface/GUI Design, Technical And User Documentation.
  - Hardware setup, tuning and installation.
  - Network design and implementation.
  - Router/Switch configuration.
  - VPN design and implementation using various protocols including my own where none existed at the time.
  - Analog and Digital Communications
  - 15-year veteran user of the Internet, UUCP and other emerging Internet Technologies before they became popular.
- Programming Languages
  - C/C++, PHP, UNIX Shell Scripting, ix86 assembly language, HTML, DHTML, MySQL
  - Some experience with Java, JavaScript
- Operating Systems and Environments
  - Linux, UNIX, Solaris, DOS, PharLap/286, OS/2 1.0-3.0, DESQview, Windows, Windows XP

## Projects and Products Developed

OpenSource	Imbalance – a light-weight http load balancer written in PHP and MySQL intended to be run under Linux and Apache 1.3.x or 2x. See <a href="http://www.sourceforge.net/projects/imbalance">http://www.sourceforge.net/projects/imbalance</a>
Iptopia, Inc	WebKey - An HTML driven interface to a centrally managed multi-system, multi-server environment encompassing everything from simple user account creation to virtual web servers, mail servers and a centrally managed IP Pooling mechanism allowing for the accounting and assignment of IP space. IP traffic monitoring and data collection.
Lockheed-Martin Aircraft Services	MS-DOS based distributed multi-tasking and GUI system for avionics validation. NetBIOS based interprocess and intermachine communication. Thread safe GUI with intermachine communication and process locking systems.
Fletcher-Flora Eutechnics	SoftTemp A simple data acquisition/data logger program under MS-Windows bundled with and designed to monitor a series of hand-held temperature instruments.
Fletcher-Flora Eutechnics	PCSIO/68k ROM BIOS for a 68306 based intelligent multiport serial/parallel board and associated multi-threaded MS/PC DOS drivers. This product was used to collect data from medical analyzers of various types and incorporate their data into medical office software.
Personal Project	PMT/86 A shareware preemptive threads library for Borland C under MS/PC DOS. PMT/86 provided for multiple threads, thread-safe DOS calls, IPC, semaphores and timers. Although written as a demonstration, users worldwide have requested it for use. See <a href="http://www.ducskfeet.com/nic/pmt86.zip">http://www.ducskfeet.com/nic/pmt86.zip</a>

## Experience

1997-Present

### **Iptopia, Inc. San Jose California**

#### **Systems Administrator, Software Engineer, Network Manager**

With Iptopia I have created a multi-homed server environment with facilities in Los Angeles and San Jose. I telecommute from my home where I monitor and maintain our facilities through use of terminal servers and remote power management. Almost all of my work can be accomplished from a single location be it at home or on the road via wireless communication.

I have developed a large number of utility packages and designed and implemented network infrastructure. I have worked with vendors and security experts to keep a large network secure. At Iptopia I have used Linux, Solaris, Cisco and HP Ethernet switches. I have implemented VPN's, MRTG for traffic monitoring. I have developed WebKey (described above) and other systems software for control and monitoring.

1996-1997

### **Lockheed-Martin Aircraft Services (Midcom Corp.) - Ontario, CA**

#### **Senior Programmer**

At Lockheed-Martin I worked on a flight simulator project under MS-DOS with several other programmers and engineers. We simulated a C-130H aircraft for the purposes of validating new avionics for a fleet-wide upgrade for the Spanish Air Force. I wrote and maintained a DOS based GUI and multi-tasking subsystem as well as a NetBIOS based intranet communications system for the purpose of sharing CPU load across multiple computers for simulation. We used MIL-1553B communications with avionics and an Airinc board for flight conditions and autopilot.

1995-1996

### **Hitachi Data Systems (Midcom Corp.) - San Diego, CA**

#### **Senior Programmer**

Worked with a team of 12 other programmers on the Hitachi Data Systems 7450 and 7430 Automated Tape Library Manager. Developed software using C++ and imbedded SQL under OS/2 Warp to control a robotic tape library for System/370 and System/390 compatible mainframes. Handled midlevel systems software, developed test cases for problem research, and assisted other staff in tricky debugging issues. As an IBM OEM, I acted as liaison between HDS developers and IBM product support. Assisted staff with LAN Server and TCP/IP problems and setup.

1994-1995

### **Fletcher-Flora Eutechnics, Anaheim, CA**

#### **Software Engineer**

Developed SoftTemp, a flexible, simplistic, serial based data acquisition package for Windows 3.1 using Visual Basic. Handled all aspects of the software development, including the drafting of software specification, user documentation and help file compilation using such tools as Word 6.0, PaintShop Pro, and Visual C++ for .DLL debugging.

Designed ROM BIOS, Monitor, Debugger, and MS/PC DOS drivers for a 68306 based multi-port I/O board to interface with laboratory analysis system. The DOS driver, implemented as a TSR, was required to service I/O requests from application programs on the PC and the BIOS and driver software on the 68306. These requests could include requests for concurrent background operation on the PC. Developed a protected mode DLL to interface the DOS communications driver to extended DOS applications under Phar-Lap DOS Extender/286.

1993-1994

### **Equinox Inc., Pacoima, CA.**

#### **Senior Software Engineer/Technical Team Leader**

Designed a simple yet flexible API for developing multi-threaded client/server applications under OS/2. Assisted in the overall design process for a large distributed warehouse automation system for various subsystems. Designed and developed a version control tool for comparing SQL scripts and databases, reporting on contextual changes rather than content changes. Supported staff within the group on user oriented Novell issues for NetWare 3.12. With more experience using and programming OS/2 than most personnel I assisted, instructed, and supported internal programmers on OS/2 development issues. Implemented a test network to determine problems with OS/2 software and NetWare. Drafted procedures and standards for NetWare and OS/2 development systems.