

# Michael J. Pedersen

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## Profile

Systems Developer / Administrator with 15 years experience doing administration of Windows, Linux, and UNIX (Solaris, AIX), with a strong focus on writing programs to make processes easier and more efficient for the entire work force.

## Relevant Work History

**6th Avenue Electronics**, Springfield, NJ - Systems Developer / Administrator 2005-2008, 2011

In 2007, 6th Avenue began switching from their current POS system (named Tyler) to SAP. At the end of 2010, SAP was declared unworkable, and I was asked to come back to help them switch back to Tyler.

- Installed Drupal CMS for the IT department to use as a way to document everything that it takes to manage an IT department.
- Maintained Tyler point of sale system on HP-UX, responsible for inventory, sales, purchasing, and accounting for the entire company.
- Configured all servers for newly implemented SAP system.
- Performed field certification of MaxDB system for CommVault, providing reliable and supported backups for SAP databases.
- Exported data from Tyler point of sale system for import into SAP system.
- Frequently wrote scripts to satisfy various company needs using a variety of scripting languages.
- Maintained heterogeneous environment with more than 30 Linux and more than 40 Windows servers.

**Datapipe, Inc.**, Jersey City, NJ - UNIX Developer 2008-2011

- Optimized PostgreSQL database on FreeBSD. Multi-million record insert jobs were taking hours to complete, and the optimization brought that time down to 20 minutes.
- Created internal packages for Bacula (internal name: SureRestore) for all supported platforms.
- Evaluated potential replacements for SVN, including git and Mercurial.

**Diversified Systems**, Hackettstown, NJ - Systems Developer / Administrator 2002-2005

- Worked with upper management to completely redesign entire business processes and systems company-wide (accounting, customer service, builder coordination, sales and warehouse management).
- Implemented HylaFax fax server for incoming and outgoing faxes, allowing electronic receipt of over 200 pages of faxes per day from field technicians.
- Deployed Unattended, an automated Windows imaging system, to standardize computer receiving and configuration.
- Implemented employee remote-access system, using VPN (virtual private network).

**Ciber, Inc.**, Greenwood Village, CO - Member of Technical Staff 1999-2002

- Integrated AIX/Solaris servers into Windows NT network, allowing developers on Windows to access AIX/Solaris files/printers.
- Developed of a set of Solaris packages allowing deployment of new servers within 2 hours of receipt.
- Developed Ghost-like utility overnight, meeting next-morning deadline for usable computer loads.
- Participated in configuration of training room using Red Hat Linux with Kickstart.

**Self-Employed**, New Jersey - IT Generalist 1995-Current

- Created Linux-based network featuring NIS, NFS, DHCP, Linux firewall (using iptables), Samba, SSH and a Subversion server.

# Skills and Experience

## *Software Design and Configuration Management Tools*

	Time Used	Last Used	Proficiency
Git	1 year	2011	Fair
Mercurial	2 years	2011	Good
Subversion (SVN)	2 years	2008	Good

## *Markup Languages*

	Time Used	Last Used	Proficiency
CSS	2 years	2011	Fair
HTML	12 years	2011	Very Good
XML	2 years	2011	Fair

## *Operating Systems Used / Administered*

	Time Used	Last Used	Proficiency
Linux (Debian, RedHat, SuSE)	13 years	2011	Excellent
UNIX (Solaris, AIX, HP-UX)	5 years	2009	Very Good
Windows (7, Vista, 2003, XP, NT, 98, 95)	12 years	2011	Very Good

## *Scripting Languages*

	Time Used	Last Used	Proficiency
Bash	6 years	2011	Good
Perl	6 years	2010	Good
Python	3 years	2011	Very Good

## *Database Servers*

	Time Used	Last Used	Proficiency
PostgreSQL	5 years	2011	Good
Microsoft SQL Server	3 years	2008	Fair

## *Applications*

	Time Used	Last Used	Proficiency
Ipswitch What's Up	2 years	2008	Good
Nagios	3 years	2010	Good
VMWare	6 years	2008	Very Good
Zenoss	<1 year	2011	Fair

## *Networking and Security*

	Time Used	Last Used	Proficiency
Checkpoint VPN	2 years	2007	Good
Cisco	3 years	2008	Fair
Firewall Design	5 years	2008	Good
TCP/IP	10 years	2011	Very Good

## Education

East Stroudsburg University, East Stroudsburg, PA  
BS in Computer Science

Graduated 2000

# Project Experience

## *SAP to Tyler Conversion*

<b>Period</b>	2011
<b>Company</b>	6th Avenue Electronics
<b>Tools</b>	AutoIt3, CentOS Linux, Python
<b>Platform</b>	Server: CentOS Linux, Client: Windows

6th Avenue Electronics found that SAP was not a workable solution for them. The decision was made to switch back to the Tyler POS system. They would do a new installation, though, so that mistakes made with the old system could be removed, and the system could be more easily maintained. I was tapped to manage many of the technical aspects of the migration, while my immediate managers would handle the business aspects.

Due to the costs associated with SAP, we had just over three months, in total, to complete the transition. We were successful.

- Wrote several one-off scripts to check data that was sent in various Excel spreadsheets. Validate that all entries in column A of File 1 / Sheet 1 are in Column C of File 2/Sheet 1.
- Used AutoIt3 to automate the update of several items that could only be keyed into the client. No import existed at all. This reduced work from several hours down to an hour (including the initial script creation).
- Developed an automated installer that was used to handle installing all components (receipt printer, fonts, initial configuration) on every machine in the company.
- Worked with Tyler Retail Systems to configure the server properly.
- Developed snapshot backup strategy that reduces downtime for Tyler to mere minutes per night.

## *KP-CIS*

<b>Period</b>	2002-2003
<b>Company</b>	Ciber, Inc., contracted to IBM
<b>Tools</b>	Perl, Cygwin, GNU Make
<b>Platform</b>	AIX, Windows NT

IBM was under contract to develop a complete clinical information system for Kaiser Permanente clinics. I participated as a member of the environment team, focusing on improving the build processes.

- Resolved issues with corrupted builds occurring weekly, resulting in savings of over 1000 work hours every week.
- Developed and improved approximately 450 compilation scripts and Makefiles on AIX and Windows NT/2000, fixing dependency issues and allowing reliable use of nightly code compilations.
- Evaluated, tested, integrated and deployed new compilation tools.