

Peter Newman

Objective	<p>I am a highly flexible server administrator and software engineer seeking an exciting role in information technology development.</p> <p>I am highly experienced in rapid development of concepts and prototype systems in a limited time frame.</p>
Experience	<p>October 2010-Current: Uformia AS, Server Administrator</p> <p>Uformia AS is a private company with the headquarters in Norway and the international team of developers in Australia, Chile, Japan, Kenya, UK and USA. Uformia creates 3D volume modeling software for 3D printing, bio-engineering and other applications. More can be seen at http://www.uformia.com/ .</p> <p>Set up and maintained the company Internet presence and distributed development support systems. Joined development of the Symvol modeling software from alpha state through to product release.</p> <ul style="list-style-type: none">• Rackspace Cloud Servers• Ubuntu Server• Apache2, MySQL5, PHP 5, Ruby On Rails, Lighttpd, OpenLDAP• Bazaar, Zimbra, Big Blue Button, Redmine, Duplicity• Rackspace Cloud API <p>June 2009-August 2011: EvoGrid</p> <p>The EvoGrid is a worldwide, cross-disciplinary effort to create an abstract, yet plausible simulation of the chemical origins of life on Earth. One could think of this as an artificial origin of life experiment.</p> <p>I acted as Chief Engineer for this project, responsible for design, implementation of critical components, and managing contributing developers.</p> <p>Featured in New York Times - Web version at: http://www.nytimes.com/2009/09/29/science/29grid.htm More details on the project at http://www.evogrid.org/</p> <ul style="list-style-type: none">• Xen Virtual Machines• Debian 5• Apache2, MySQL5, PHP4• C++, GROMACS <p>August 2009-Current: Digital Space Corporation, Support Contract</p> <p>Digital Space Corporation is an international corporation focusing on the practical applications of virtual worlds for industrial design, engineering, education and public outreach. More can be seen at http://www.digitalspace.com/ .</p> <p>Consolidated multiple physical machines to hosting as a VPS, including investigating and selecting the VPS provider. Provide continuing maintenance and upgrades for these services.</p> <ul style="list-style-type: none">• VMWare Parallels Container• Debian Linux• ISC BIND DNS Server, Apache 2, MySQL 5, PHP 4• QMail, Courier, SpamAssassin, MailMan and ClamAV• Nagios

2008 April-May: Strategic Data, System Administration

Strategic Data provides services in all phases of the data collection, capture, processing, management and analysis process. More can be seen at <http://www.strategicdata.com.au/>.

Planned and implemented the upgrade of 8 servers from Debian Sarge to Debian Etch. All machines were upgraded without downtime to the organisation and their clients dependant on them. This included documented planning, testing on alternate hardware, and preparation for failure mitigation.

- Debian Sarge and Etch
- Apache, MySQL 4 and 5
- Mondo Archive and Restore
- Shorewall, Amanda, SSH

2006-August 2009: Digital Space Corporation, Support Contract

Provided remote server administration of various purpose machines, including Windows 2000 Server, Windows 2003 Server, FreeBSD and Debian Linux. This included administration of Apache web servers, MySQL databases and several mail servers.

- Windows 2000 Server, Windows 2003 Server
- FreeBSD, Debian Linux
- Apache 2, MySQL4
- MDAemon Mail Server, Exim 4
- PPTP Virtual Network
- SonicWall Firewall
- Terminal Services, VNC
- ISC BIND DNS Server

2005-2008: DM3D Studios, Lead Programmer

Spear-headed, designed and implemented the Digital Spaces real-time simulation engine, with a client-drive, rapid prototyping and development methodology.

I also continued with much of the role of Programmer (see below), as well as being responsible for managing others working in the role of Programmer

- C / C++ - Visual C++, STL
- Assessment and integration of external libraries
- Python
- Real-Time physics-based 3D simulation
- PHP 4, MySQL 4, Apache 2
- HTML, CSS, Javascript
- Wildfire XMPP Server
- Joomla CMS, Mambo CMS, Damper (Internally developed PHP/MySQL CMS)

My responsibilities included configuration of hosting services purchased by customers where we were deploying web presence applications.

2002-2005: DM3D Studios, Programmer

Performed a wide range of technology related functions, with a primary focus on simulation development, technology assessment, and web application development.

Acted as the primary I.T. support for the office computer systems and network.

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Education	<p>2000: East Gippsland Institute of TAFE Certificate IV in Information Technology - Programming</p> <p>1998: McKillop Catholic Regional College Completed Victorian Certificate of Education</p>
Referees	<p>Turlif Vilbrandt: Uformia AS Email: turlif@uformia.com Phone: +4746836475</p> <p>Bruce Damer: Digital Space Corporation Email: bdamer@digitalspace.com Phone: +18313389400 Address: Santa Cruz, California, United States of America</p>
Interests	<p>Software design and development, artificial life simulation, genetic algorithm development, Linux server administration, and computer games. I also have a high degree of interest in keeping my skills current and am developing my own skills beyond my work experience. Current skill-sets I am investing in include:</p> <ul style="list-style-type: none">• Virtual Networks• Virtual Machines - VMWare, Xen, Bochs
Other	<p>Symvol is available for purchase at http://www.uformia.com/index.php/products/ .</p> <p>The Digital Spaces real-time simulation engine has been released as an Open Source project (LGPL) and can be seen at http://www.digitalspaces.net/ .</p>