

# Robert L. Nelson, Jr.

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## Education

**Brandman University – Bachelor’s in Computing Technology** (2012, Latin Honors)

**Skagit Valley College – Associate in Arts University and College Transfer** (2008; High Honors)

**Skagit Valley College – Associate in Technical Arts in Computer Information Systems** (2008; High Honors)

## Experience

**Game & Server Developer** - Kerbal Space Program, Squad, Mexico City, Mexico (December 2011 – 2013)

- Developed custom multiplatform patching system, using Python, pyinstaller, and a custom rsync patch in C for MySQL integration.
- Developed plugin architecture through reverse-engineered game code, using custom tools, MSIL, C#, and ILSpy.
- Installed, optimized, and maintained critical computing systems, was on 24/7 call.
- Modified and secured pre-existing software packages against attacks.
- Trained and directed co-workers in systems operation and maintenance.
- Made use of skills in PHP, C#, Python, and CIL, also worked with Jenkins CI, Steamworks, Unity3d, GIMP, MySQL, and Inkscape on Windows, Linux, and Mac OSX.

**Developer** – Space Station 13 (/vg/station fork) - <https://github.com/d3athrow/vgstation13>

- Refactored old and often complex game subsystems, added new features, fixed bugs using the BYOND programming language.
- Integrated with external databases and websites using PHP, MySQL, and Python, including use of Phinx for database migrations.
- Developed completely new custom tools for rendering reference maps and code analysis, using Python and C#.
- Operate Jenkins CI server for nightly builds and automated testing.
- Routinely work with BYOND.com developers and other forks to improve engine and share changes.

**Laboratory Assistant** – Student Services, Skagit Valley College, Whidbey Island, WA  
(September 2005 – 2008)

- Checked students into lab
- Gathered statistics (via Excel spreadsheets)
- Maintained office equipment, including color and black/white laser printers, scanners, and tools for disabled students (Dragon Speech)
- Provided assistance to students with computer hardware and software-related issues

**Website Developer** – Freelance, Oak Harbor, WA (October 2003 - 2011)

- Built and maintained dynamic W3C-compliant web presences using HTML5 and PHP
- Worked with shared, dedicated, and cloud services (Linode, Amazon AWS)
- Created custom graphics for each site with Inkscape, GIMP, and Photoshop

## Computer Skills

### Operating Systems

- Gentoo Linux
- Debian Linux
- Red Hat Linux
- Windows 95 – 7
- Windows Server NT, 2000, 2003, 2008
- DOS 6.2
- pfSense NetBSD Firewall
- iOS 5+

### Applications

- Microsoft Office
- GIMP
- Inkscape
- FlashDevelop
- Adobe Suite CS6 (Photoshop, Premiere)
- Apache Webserver
- Lighttpd 1.4+
- MySQL 4.0+
- PostgreSQL
- VMWare
- Jenkins CI
- Tomcat 6+
- Nexus Maven Repository
- BuildBot CI
- Maven
- CMake
- MediaWiki
- Unity3D

### Hardware

- Computer/Server Chassis
  - AT family (AT, ATX)
  - 1-2U rackmounts
- Networking Hardware
  - CAT5e cabling and connectors
  - Enterprise-grade switches, hubs and routers (excluding CISCO & Juniper)
  - DAMAC and HP networking racks
  - 4-post & 2-post enclosures

### Programming Languages

- ActionScript
- ANSI C/C++
- C# (and CIL)
- Visual Basic
- PHP 4+
- Lua 5+
- Java 5+
- JavaScript
- Python
- Bash
- MSDOS Batch
- GMake
- Coffescript
- (Practically anything, really.)