**Patrick T. Anderson**

**Senior Software Engineer**

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**Objectives**

Recognize global symmetry and implicit patterns within the big picture.

Design reusable components to minimize redundance and maintenance.

Utilize language features to enforce precise resource contracts.

Reduce complexity through intuitive, flexible and modular solutions.

**Experience**

**Dec/2013 - Nov/2015: RackWare**

Extend, solidify and simplify file-based imaging suite using C, C++, BASH, Batch, vbscript.

Write scripts to build, package, verify, install, test and report using git, BASH and Jenkins.

Automate VM lifecycle management on vSphere, KVM, XEN using BASH and virsh.

**Oct/2008 - Oct/2013: StorageCraft**

Write caching VHD and VHDX plugins using object-oriented C for Windows, Linux, OS X.

Extend cross-platform, block-based imaging suite using Emacs, Visual Studio, C, C++.

Integrate VMware VDDK libraries for VMDK and ESXi targets using C++.

Write skeleton snapshot driver for HFS+ on Mac OS X using C and Xcode.

Automate build system to compile, sign, package, verify and report using Visual Studio and Batch, vbscript, InstallShield, .NET/C#, WMI.

Develop framework to overcome traditional installer limitations using C from Visual Studio.

**Aug/2005 - Oct/2008: Social Sufficiency Coalition**

Begin basic Linux application development with Emacs, gcc, gdb.

Begin basic Android application development with Emacs, Java.

Design ecology simulation to compare economic model efficiencies.

Develop autolink website with WYSIWYG "pass through" markup using XHTML and CSS.

Design JIT package manager for 'GNUnix' to install and execute advertised features.

Write Intra Owner Trade Agreement as a GNU GPL for the physical realm.

Used C, C++, XHTML, CSS, JavaScript, BASH, Emacs Lisp, gcc, gdb, Java.

**Aug/2000-Aug/2005: Altiris**

Write thin library to automate resource management and simplify Win32 API.

Design "pass through" interfaces to increase performance and decrease maintenance.

Extend, debug and repair Windows device drivers used to read/write hardware settings.

Write W32 Service to remotely control and report computer settings.

Write simple HTTP and IMAP clients to send commands, and parse results.

Write self-extracting installer conforming to "Add/Remove Programs" guidelines.

Write dynamic virtual file system for incremental backup to removable media.

Write some simple stored procedures against MSSQL.

Used C, C++, XHTML, DDK, Visual Studio, MSSQL.

**Aug/1999-Aug/2000: NovaRad**

Integrate DICOM transport and JPEG2k compression into medical imaging client.

Design predictive caching SCSI robotic tape archiver.

Used C, C++, TCP/IP, Visual Studio.

**Jul/1997-Aug/1999: NetSchools**

Develop UDP/IP packet generator and simple sniffer for IR network.

Develop network logon provider using SSPI and Blowfish encryption.

Help develop write-protection for Windows 9x filesystem and registry.

Extend compressing RAM paging driver and keyboard filter VxD.

Used C, C++, TCP/IP, DDK, Visual Studio.

**Jun/1996-Jun/1997: BioVision Motion Capture**

Develop Flex/Bison regexps, BNFs and glue code to import motion capture data.

Develop other tools to simplify and automate motion data transforms.

Use matrix mathematics and spline approximations to smooth sparse data.

Used C, C++, Visual Studio.

**Feb/1996-Jul/1996: IBM Eduquest**

Track and fix application bugs in educational software.

Help write printer driver to translate between Postscript, PCL, PDDP.

Used C, C++, TCP/IP, Visual Studio.

**Jan/1995-Dec/1998: Brigham Young University**

Independent C/C++ tutor.

Teacher's Aid for "Discrete Structures and Combinatorial Mathematics" I and II.

**Education**

**Jan/1994-Dec/1998: Brigham Young University**

B.S. in Computer Science