

Patrick T Anderson

Senior Software Engineer

[Patrick-T-Anderson.github.io](https://patrick-t-anderson.github.io)
Patrick.T.Anderson@gmail.com

Build cross-platform, multi-threaded C/C++ applications and services.
Diagnose, troubleshoot, debug, distill and modularize legacy code.
Design pass-through, symmetric, orthogonal interfaces.

President: Product Futures Foundation Apr/2018 - Present

Develop the For Product business model to regain the reigns.
Write LENS, the user friendly, less smart contract language.
Architect DAO to pre-allocate product and reduce token flow.

Senior Software Engineer: [SlingTV.com](https://slingtv.com) May/2016 - Mar/2018

Repair, redesign and rewrite the core of in-house C++/lua video player.
Triage and resolve issues with threading, resource locking, scheduling.
Build, pack, test Android, Roku, iOS, tvOS with BASH, Python, git, Jenkins.

Senior Software Engineer: [RackWareInc.com](https://rackwareinc.com) Dec/2013 - Nov/2015

Simplify and extend their file-based imaging suite using C++, BASH, Batch.
Build, package, test, verify and report using BASH, Python, git, Jenkins.
Automate VM management for AWS, IBM Cloud, vSphere, KVM, XEN, VirtualBox.

Software Engineer IV: [StorageCraft.com](https://storagecraft.com) Oct/2008 - Oct/2013

Extend block-based imaging suite using cross-platform OO-C and C++.
Write plugins to read/write VHD and VHDX for Windows, Linux, macOS.
Integrate VMware VDDK libraries for VMDK and ESXi targets over REST.
Automate build system to compile, sign, package, verify and report.
Write skeleton snapshot driver for HFS+ on macOS using C and Xcode.

Founder: [SocialSufficiencyCoalition.BlogSpot.com](https://socialsufficiencycoalition.blogspot.com) Aug/2005 - Oct/2008

Start GNU/Linux as a GNU+Linux distro and begin basic Linux programming.
Write autolink static website generator with Emacs Lisp, XHTML and CSS.
Write Intra Owner Trade Agreement as property contract for social goals.

Software Engineer III: [Altiris.com](https://altiris.com) (now Symantec) Aug/2000 - Aug/2005

Write thin C++ library to automate resource management and simplify the API.
Write Win32 Service to allow remote administration of any Windows client.
Debug, repair and extend Windows drivers to read and write hardware settings.
Write dynamic virtual file system for incremental backup to removable media.

Software Engineer II: [NovaRad.net](https://novarad.net) Aug/1999 - Aug/2000

Integrate DICOM transport & JPEG2k compression into C++ medical imaging client.
Design predictive caching SCSI robotic tape archiver and begin C implementation.

Software Engineer: NetSchools.in Jul/1997 - Aug/1999

Develop UDP/IP packet generator and simple sniffer for IR network.
Develop Windows logon provider in C using SSPI and Blowfish encryption.
Help develop write-protection for Windows 9x filesystem and registry.
Extend RAM paging driver and keyboard filter driver using MS WDK.

Software Engineer: BioVision Motion Capture Jun/1996 - Jun/1997

Develop parsers and C++ 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.

Software Tester: IBM Eduquest IBM.com Feb/1996 - Jul/1996

Track and fix application bugs in C++ educational software.
Help write code to translate between Postscript, PCL, PDDP.

Bachelor of Science in CS: Brigham Young University BYU.edu Jan/1995 - Dec/1998

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

Independent tutor: C and C++