**Andrew DeFaria**

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# Objective

To work with state of the art operating systems and networks to insure the smooth running of an organization's information flow.

# Hardware

Workstations and servers from Sun, HP as well as various other manufactures of Linux systems.

# Operating Systems

**Unix** (Solaris, HP-UX), **Windows, Linux** (Redhat, Centos, Ubuntu), [**Cygwin**](http://cygwin.com/)

# Networking

TCP/IP, Windows and Linux Networking, **Active Directory/LDAP,** **Samba**

# Software

|  |  |
| --- | --- |
| Version Control Systems | **Git**, **Perforce**, **Clearcase** |
| Issue Tracking | **JIRA**, **Clearquest, Bugzilla** |
| Languages | **Perl, Bash, PHP, C++, C, Ada, TCL** |
| Middleware | **Apache, Tomcat, Samba, Winbind, LDAP, REST** |
| Web apps | **JIRA, Confluence, Swarm** |
| Databases | **MySQL, Oracle** |
| Continuous Integration | **Build Forge, Electric Commander, Jenkins** |
| Virtualization | **VMWare, VirtualBox** |

# Education

A.A.S. in Computer Science from Union County College in Scotch Plains, New Jersey. Continued studies at Fairleigh Dickenson University, San Jose State University, Mission College and Chico State in pursuit of my degree.

# References

|  |  |  |  |
| --- | --- | --- | --- |
| [David Petro](http://www.linkedin.com/profile/view?id=14959116) | (425)-391-4185 | [david.petro@ge.com](mailto:javascript void(0)) | Manager, General Electric |
| [Tom Connor](http://www.linkedin.com/profile/view?id=276869) | (512)-422-1172 | [tomhillconnor@yahoo.com](javascript:void(0)) | Coworker, Consultant |
| [James Chen](http://www.linkedin.com/profile/view?id=700521) | (408)-845-5360 | [jchen@salira.com](javascript:void(0)) | Vice President of Engineering, Salira Optical Network Systems |
| [Omair Ahmed](http://www.linkedin.com/profile/view?id=12113821) | (224) 715-9786 | [omair.ahmed@ge.com](mailto:Omair.Ahmed@ge.com) | Coworker, General Electric |
| [Shivdutt Jha](http://www.linkedin.com/profile/view?id=1023014) | (408)-806-3476 | [shivdutt\_jha@hotmail.com](javascript:void(0)) | Coworker, Consultant |

## Clients

**A Knowles Company**

March 2014 - Present  
Contract  
[**Audience**](http://defaria.com/blogs/Status/archives/cat_audience.html)

Served in the **Devops** group as admin for **JIRA**, **Perforce**, **Swarm** (code review tool), **Git Fusion**, **Linux** (**Centos**/**Ubuntu**/**Redhat Enterprise**). Maintained custom build system that utilized **Perl**/**PHP**/**Apache**/**Linux**/**Windows** servers to allow engineers in the field to perform customized builds. Integrated **Bugzilla** and Perforce (P4DTG). Wrote scripts to import data from Bugzilla to JIRA, assisted with JIRA setup and integration of **Salesforce** with JIRA. Assisted in the migration for users to new Knowles domain.

Tools used: **Perforce**, **Jama**, **JIRA**, **Git**, **Gerrit**, **Bugzilla**, **Autobuilder**, **Build Script**, **Jenkins**, **Confluence** and **Swarm**.

July 2013 - Dec 2013  
Contract  
[**Axcient**](http://defaria.com/blogs/Status/archives/cat_axcient.html)

Worked as a **Build and Release Engineer** for AxOS. The Axcient product is a customized derivative of **Ubuntu**. The SCM system being used is **git**. Developed and standardized procedures for performing builds.



December 2011 – April 2013  
Contract  
**Broadcom**

**Clearquest Designer** and hook code writer. The Clearquest database used **Visual Basic**. Integrated this Clearquest server by utilizing ClearSCM's [Clearquest](http://clearscm.com/php/cvs_man.php?file=lib/Clearcase.pm) module as well as [Clearquest::Server](http://clearscm.com/php/cvs_man.php?file=lib/Clearquest/Server.pm), [Clearquest::Client](http://clearscm.com/php/cvs_man.php?file=lib/Clearquest/Client.pm) and [Clearquest::REST](http://clearscm.com/php/cvs_man.php?file=lib/Clearquest/REST.pm) modules so that systems that did not have Clearquest installed (e.g. **Linux** build machines) could talk to Clearquest to update defects when required. Used the, [Clearquest::REST](http://clearscm.com/php/cvs_man.php?file=lib/Clearquest/REST.pm), to replace a [Clearquest Daemon](http://clearscm.com/clearquest/cqd/) that was in use. Modified **Perforce** and **Git** triggers to use this **REST** interface.

Worked with [**Electric Commander**](http://www.electric-cloud.com/products/electriccommander.php) migrating a group from their unsupported build environment into the standard Electric Commander based solution. This involved using **Cygwin**, **bash** and **LSF** to farm builds out to a pool of **Windows** servers to perform builds. Builds were done using **Visual Studio** 8.0, 9.0 and 10.0. Build system also used Perforce and Perforce trigger to fire builds as the engineers checked in code.



March 2011 – December 2011  
Contract  
**Tellabs**

Automated various informational systems using **Perl**/**MySQL**/**Oracle** and the web.

Developed a command line debugger called raid which provided a consistent interface with complete command history and variable substitution. This Perl process utilized **Inline::C** to interface to the developer libraries and provide a consistent interface for the various command line debuggers developed by various different groups.



January 2010 – October 2010  
Contract  
**General Electric**

Performed **Clearcase**/**Clearquest** **UCM** administration. Developed an [Evil Twin Finder](http://clearscm.com/php/cvs_man.php?file=cc/etf.pl) in Perl. Worked with **Build Forge** (IBM’s CI tool similar to **Jenkins**) jobs to automate work flow.



June 2007 – October 2009  
Contract  
**General Dynamics**

**Clearcase**/**Clearquest** Administrator, **Build Release** and **Automation** using **Perl** scripts. Updated **C++**/**Qt** application that integrates **UCM**/Clearquest integrated environment into one tool and ported it to Linux.

Instrumental in establishment of Perl standards and introduction of Perl tools such as [Perl::Critic](http://perlcritic.com/) and [Perl::Tidy](http://perltidy.sourceforge.net/). Worked at promoting usage of CPAN modules.

Automated tests using [NetHawk EAST Simulators](https://www.nethawk.fi/products/nethawk_simulators/) to automate all testing and store results into a **MySQL** database. Also developed a **PHP** app to report/graph results.



October 2006 – June 2007  
Contract  
**Texas Instruments**

**Clearcase**/**Clearquest** Administrator. Wrote a **Perl**/**Oracle** application to track information about projects worldwide. Automated Clearcase license usage reporting and load balancing of Clearquest web servers.



February 2006 – October 2006  
Contract  
**Hewlett Packard**

**Clearcase**/**Clearquest** **UCM** Administrator. Wrote triggers to notify users of deliveries. Baselined official builds. Automated the build process to perform simple **continuous integration**. Created a dynamic web page to show **Junit** test history.



September 2005 – January 2006  
Contract  
**Broadcom**

**Clearcase**/**Clearquest** Administrator and support of systems. Developed several [triggers](http://clearscm.com/clearcase/triggers.php) .

Wrote [Perl script](http://clearscm.com/clearquest/db.php) to merge Clearquest databases

Designed and developed another Clearquest database for the Mobile Multimedia group.



December 2004 – September 2005  
**Lynuxworks**

Build engineer building **LynxOS** (Linux RTOS) as well as tool chains, testing, releasing and process improvement. LynuxWorks uses **CVS** for version control.

Implemented full text search using Perl and Htdig (See [ECRDig](http://clearscm.com/scripts/ecrd)). Developed [CVS Utilities](http://defaria.com/Resume/cvs_utilities)). Automated nightly builds could be performed.



March 2004 – December 2004  
Contract  
**Ameriquest**

Served as **Clearcase**/**Clearquest** administrator to this major mortgage company. Importing source code from file systems, PVCS and VSS.



August 2001 – February 2004  
**Salira**

Served as **Clearcase**/**Clearquest** Administrator and **Release Engineer**, employing [Cygwin](http://Cygwin.com/) to engineer a build environment using GNU make. Analyzed [Build Performance](http://defaria.com/Resume/SmakeOpt) and [Build Stress Testing](http://defaria.com/Resume/BuildPerf).

Setup Clearquest and bug tracking system as well as served as an advisor/expert on Clearcase issues, branching strategies, labeling and release management. Wrote C application for product packaging.

I designed and implemented a [Clearquest Daemon](http://clearscm.com/clearquest/cqd). Developed Release Reporting system. Automated branch merging.



August 1999 – February 2001  
Contract  
**Hewlett Packard**

[Systems Technology Division](http://hprasmg.cup.hp.com/Org/STD.html)

[Enterprise Java Lab](http://pdlweb.cup.hp.com/)

Performed Security Audit for the lab. Also migrated user data to HP NetStorage 6000.

Set up Netscape Enterprise Web Server and iPlanet 4.1 Web Server.

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