# Derek C Carter

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## Recent Experience

### Goozbach Infrastructure Solutions

**Linux Infrastructure Consultant and Instructor – December 2011 – Present**   Sucessfull Linux Consulting and training company providing support and best practices for companies in the telecom, training and technology fields.

Services provided include system updates, configuration management, installation automation, Bash and Python scripting, training delivery, training course development, and other systems administration tasks.

- Consulting customers on DevOps policies, procedures, and tools.

- Creating best practices for tools customers are using, including Cobbler, Puppet, and Ansible.

- Creating and maintaining virtualization and "private clouds", allowing for better use of existing resources.

  - Utilizing OpenStack, SolusVM, OpenShift, Vmware, and VirtualBox

- Automating and scripting system administration tasks.

- Developed Linux training courses.

  - Course topics included Linux Automation, and Linux Network Managment.
  - Course creation included slides, books, lab excercises, and virtual server envrionments.

### Coraid

**QA Engineer and Tools Developer – February 2010 – March 2012**   "User number 1" for an Ethernet Storage company, which includes quality assurance engineering, testing, and tool/platform development; as well as product market research.

- Testing releases of Coraid HBA drivers for Solaris, OpenIndiana, Nexenta, Windows, and Linux platforms.

  - Integrating Coraid storage with ZFS and Linux LVM.

- Tested firmware updates for Coraid appliances.

- QA tool and platform engineering

  - Built an installation automation system using Cobbler to make installing and testing easier and faster.

- Integrating Cobbler into a Plan9 based PXE and DHCP environment.
- Designing and implemting automated QA testing script frameworks built in Bash and Python.
- Designing and installing a new testing lab data center.

### Cox Media Group Digital / Cox Radio Interactive

**Systems Administrator – August 2007 – February 2010**  Cox Radio Interactive(CXRI) merged into the newly created Cox Media Group Digital. During the transition I continued with all of the duties related to the servers managed by CXRI. I also helped design and create a new server platform for the future content management system under development. My responsibilities included migrating diverse code bases from subversion(SVN), bazaar(BZR), CVS, and others to the Git revision control system. Built and maintained systems and tools which used for developer and sysadmin collaboration, including an IRC server. I built and configured an installation automation system using Cobbler, PXE, and Puppet. Managed and maintained the 100+ CXRI servers.

During my time at Cox Radio Interactive I migrated the entire technology team from CVS to Subversion leading to an easier to manage code base. Improved our internal software release tools, which decreased the time needed to deploy new software to production. Designed and built a new hardware architecture for a new version of our flagship products. This design included a fully N+1 redundant MySQL database server cluster, F5 LTM load balancers, Mod_Perl and Apache. Helped manage a release of a new version of our flagship product, running on Apache and Mod_Perl. Created a new server deployment system based on Cobbler and Puppet which allows for rapid deployment of new server hardware. Created an improved pre-production/quality control/development environment based on VMware, Xen and KVM virtual servers to allow for higher quality code on production servers. Developed a pre-launch integration test which helped find errors prior to code use in production. Developed internal tools for monitoring overall network and system health and security, using Nagios, Snort IDS, iptables, Func, and, Bash and Perl scripts. Utilized Request Tracker to manage work flow for the systems team and interact with internal and external customer requests. Managed the public DNS infrastructure for 100+ domains using ISC Bind. Managed NetAPP storage appliances utilizing snapshots and clones to facilitate our pre-production environments. Configured and monitored our F5 Load balancers with their embedded TCL scripting language.

### Florida Department of Health

**Systems Administrator III – March 2006 – June 2007**   Designed and deployed medium scale Asterisk VOIP solution for a virtual IT help desk, using Perl and JQuery to create a call center monitoring wallboard. Maintained and supported state-wide, multi-agency, contact directory using Red Hat Directory Server, importing data from all of the different state agencies using custom Perl scripts. Created and maintained an automatic Linux install system, reducing time spent installing Linux considerably. Researched Linux migration paths/plans for future Linux needs or requirements of the agency. Prepared and presented training at internal departmental conferences. Developed a Linux print server system using Samba which integrated with the Active Directory Authentication system. Used VMware as part of a fault tolerant infrastructure. Managed system configuration and Asterisk configuration using BZR.

### Guru Labs

**Linux Instructor – December 2003 - March 2006**   Helped create and maintain industry leading Linux course ware, ranging from introductory classes to high-level Unix-Linux boot camps, and troubleshooting. Taught 2-3 Linux courses per month. Contract instructor for such companies as IBM, Red Hat, Novell, and HP. Administered dozens of Red Hat certification exams (RHCT and RHCE).

## Certifications

- Red Hat Certified Engineer (RHCE) Cert #110-015-385

- Red Hat Certified Instructor (RHCI)

- Red Hat Certified Examiner (RHCX)

- IBM Certified Linux Instructor

## Qualifications:

### Programming/scripting languages

Perl, Python, Bash, TCL, RC(plan9 shell)

### Technical writing

Proficient in both English and Spanish

Written course ware and lab exercises for training purposes

Prepared and given numerous presentations at conferences and special interest groups.

## Other experience

I am active in my local Linux users groups, Atlanta Linux Enthusiasts and Classic Hackers UGA Linux Users Group.

I am the Author of/Contributor to these open source projects.

I am one of the co-founders of the GoOSe Linux Project.