

Neal Edward Elliott Sr.

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<https://binary-janitor.com>

TECHNOLOGY SKILLS

Programming Languages: Bash, Tcl/Tk, expect, Perl, C, YAML, PHP, JavaScript, Java.
Operations Technologies: Docker, Jenkins, Ansible, Vagrant, OpenSMTPD, git.
Third Party Integrations: S3, OpenLDAP (LDAP), FreeIPA (LDAP), OpenDirectory (LDAP)
Cloud Providers: AWS, GCE, VMWare vsphere.
Operating Systems: MacOS, Windows 10, GNU/Linux (Debian / CentOS), OpenBSD, NetBSD, FreeBSD, AIX, Solaris.
Embedded Engineering: Raspberry Pi, Arduino.
Education: B.S. in computer science from UMGC
Clearance: TS/SCI

EXPERIENCE

Software Developer 2021-Present
Peraton

- Maintain custom software through automation using Ansible
- Troubleshoot and identify vulnerabilities, in applications

Sr. System Administrator 2020-2021
Peraton

- Worked as a developer in an Agile scrum team to write ansible playbooks to automate software installs
- Designed, and implemented a central syslog solution using rsyslog
- Built an internal webhosted CentOS RPM repository to maintain current patches of operational VMs
- built a website using PHP to help users change their passwords on both LDAP and Active Directory account management systems
- Planned and implemented migration of Solaris ClearCase source code repository into a modern CentOS ClearCase version
- built customized RPMS, and windows NSIS installer to install in-house software

System Administrator 2006-2020
Northrop Grumman Corporation

- Supporting and maintaining enterprise level data center servers on a distributed network
- Experience with VMware vSphere, and ESXi server
- Experience with Isilon's OneFS
- Ported a Solaris version of Nagios which included apache/PHP dependencies
- Designed and documented storage (RAID) solutions for servers
- Built custom Solaris packages, and Linux RPMS out of freeware COTS products

- Proactively tunes systems to limit performance problems
- Scans systems using SECSCAN and harden them based off of the scan results
- Provide level 2 and 3 SME support for multiple Solaris systems that are located worldwide
- Support application development during the software development life cycle
- Develop scripts using expect to automate system transitions
- Troubleshoot and identify OS and software related issues by using truss and collecting various system logs
- Resolves network related problems such as correcting VLAN assignments
- Troubleshoots and corrects network performance problems
- Designed a backup solution by using Open Source software AMANDA
- Developed a script to automate router backups on over 100+ routers nightly
- Proficient in C, TCL/TK, Java, expect and Perl
- Documents install procedures for baseline system configurations
- Built custom jumpstart Solaris 10 install DVDs for automated installs
- Writes software fixes for custom server releases
- Uses ZFS and disk suite for various raid level configurations

Mission System Engineer

2004-2006

Honeywell

- Provide system software support for Linux, IRIX, Solaris and AIX systems
- Developed shell scripts to automate account management on various UNIX platforms
- Planned and configured High Availability Cluster Management for AIX 5.2 servers
- Developed a full backup and restore plan for Linux, AIX and IRIX systems
- Run network security scans to audit system vulnerability
- Configured a system log server that consolidates system logs to two IRIX servers
- Designed a script that emails system administrators when host is unreachable
- Supported deployment Teams at White Sands NM, Fairbanks AK, Wallops VA, Svalbard Norway and Goddard Space Flight Center
- Configured gigabit network for several CIDR /27 networks

Solaris System Administrator

2003-2004

Mori Associates

- Lead UNIX system administrator Responsible for all of the UNIX machines on the NIDDK/NIH campus
- Scheduled system outages for patch installs
- Detailed troubleshooting of hardware, software, and network related issues
- Manage and maintain system level security
- Ensured patch level of each OS
- Responsible for the following operating systems; IRIX, Linux, Solaris and AIX
- Developed backup scripts for numerous machines

- Worked closely on computing problems with the researchers at the National Institute of Health
- Support mathematica, Maple and many other NIH based applications
- Wrote custom applications in C, Tcl/Tk and perl

System Engineer/Consultant

2003-2003

IT-CNP

- Implemented a High Availability Cluster using two Dell Power edge servers running Red hat advanced server 2.0. The cluster shared a Dell power vault disk array for storage of the highly available postgres database. The servers are used for traffic monitoring in the Maryland/DC area.

UNIX System Administrator

1998 - 2003

Honeywell Technology Solutions, Inc.

- Implemented various software development lifecycle patterns to decrease development times and improve the speed at which software was deployed to production across many teams.
- UNIX system administrator for approximately 200 machines with operating systems TRU64, IRIX, AIX, Linux, Solaris, FreeBSD, OpenBSD, Mac-OS, Cisco IOS 11, OS/2 warp, vxworks, and Windows (all versions).
- Configured and maintained Cisco catalyst and 7500 series routers.
- Installed and used Tivoli Netview.
- Setup and built a High Availability Cluster Management (HACMP) for AIX.
- Installed and configured Legato Networker for a network backup system.
- Designed FDDI and 10BaseT networks, Domain Name Servers (DNS) and IRIX web servers.
- Installed and maintained Lighthouse matrix switches
- Developed shell scripts for system management, programs in C, TCL/TK Java programming, C++ programming, and Distributed Computing Environment (DCE).
- Troubleshot network problems.
- Responsible for securing multiple types of UNIX systems.
- Traveled to Alaska, White sands test facility in New Mexico and Norway to install ground stations for NASA's EDOS Project.
- Tested data links between Norway and NASA Goddard space flight center for real-time satellite data capture.
- Certified Linux administrator.
- Wrote custom UNIX scripts for TRW engineers.
- Traveled to South Boston to test the software on the central artery tunnel also known as Big Dig.

Lead System Administrator

2000 - 2003

IntelliObjects

- Implemented web application security standards defined by OWASP.
- Developed and built the company network.
- Created the DNS server and coordinated the domain name registration.
- Installed and configured the company mail server.

- Configured and built apache for the company web server.
- Designed and installed the network firewall.

Electronic Maintenance Tech 2

Jan 1997 - 1998

Honeywell Technology Solutions, Inc.

- Supported the Earth Data Observation System (EDOS) Project.
- Assisted installation of a level zero processing facility (LZPF), upgraded, monitored, maintained and Repaired IBM RS/6000, SUN, SGI, PC's, and Mac equipment.
- Built and tested N-type and BNC cables.
- Configured, tested, maintained, and repaired Wan Router/Matrix Switches.
- Maintained and tested Lighthouse matrix switches.
- Configured and provide routine maintenance of Ampex DIS 160i tape drives.
- Installed Cisco Catalyst.
- Other duties as assigned.

Electronic Tech 1

Dec 1996 - 1997

Honeywell Technology Solutions, Inc.

- Troubleshoot, built, and configured computer systems.
- Installed and fabricated ceiling mounted TV's.
- Installed breaker panels for expansion.
- Added electrical outlets for new computer installs
- Installed circuit Breakers for computer equipment.
- Installed uninterruptible power supplies that were various sizes
- Built and tested RJ45 and coax cables.
- Disassembled 3-meter satellite tracking antenna in semi valley California.
- Develop plans to fabricate mounts or stands for uniquely shaped devices.