

## Dan Cassidy

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**OBJECTIVE:** To obtain employment as a system administrator and through that position continue to grow my professional skills with the goal of utilizing them to even more effectively contribute to the company's mission.

### KEY STRENGTHS:

- Detail oriented with the patience, tenacity, and intuition required to address complex technical challenges.
- Demonstrated teamwork abilities developed during my service in the U.S. Marine Corps and honed in subsequent positions.
- Good knowledge of Linux administration with distributions such as Ubuntu and CentOS.
- Knowledge of Linux services such as DHCP, iptables/firewalld, NFS, NTP, DNS, LDAP, SSH, TFTP, and PXE.
- Experience with the Slurm job scheduler.
- Exposure to Vagrant virtual machine environment manager and Ansible configuration manager.
- Networking experience with high-speed networks like InfiniBand and Omni-Path, and with smart hardware manufactured by Arista, HPE/Aruba, and Mellanox.
- Programming experience in C++, C, C#, Python, shell script, and Java.
- Over 20 years of experience in installing, configuring, and troubleshooting operating systems, applications, and hardware.

### EXPERIENCE:

<b>Los Alamos National Laboratory</b>	Los Alamos, NM	Aug 2017 – Present
<i>Post-baccalaureate Intern</i>		(1 year, 1 month)

- Administering both the system and network sides of a massively heterogeneous cluster containing 35+ CPU models of x86, PowerPC, and ARM architectures in 380+ nodes.
- Performing as the primary administrator and maintainer for the most-used GitLab server at the Lab.
- Working with the Exascale Computing Project to help administer GitLab instances at LANL for testing next-generation GitLab continuous integration runners.
- Continued research into whether commercial virtual reality headsets can be applied to scientific data analysis and visualization.
- Contributed to the design of an upcoming HPC visualization cluster.
- Serving as Chair for the Student Worker Safety & Security Team.

<b>Los Alamos National Laboratory</b>	Los Alamos, NM	Jun 2017 – Aug 2017
<i>Computer System, Cluster, and Network Summer Institute Intern</i>		(3 months)

- Worked with a small team to build and configure a small-scale cluster using CentOS 6 and 7.
- Gained knowledge of services such as DHCP, iptables/firewalld, NFS, NTP, DNS, LDAP, SSH, TFTP, PXE.
- Worked with Intel's Omni-Path Architecture researching fabric congestion, specifically its causes and its effect on performance.

**Los Alamos National Laboratory**

Los Alamos, NM

May 2016 – Aug 2016

*Undergraduate Summer Intern*

(4 months)

- Researched whether the then-newly-released commercial virtual reality headsets could be applied to scientific data analysis and visualization.

**Indiana University South Bend**

South Bend, IN

Oct 2014 – Oct 2015

*Computer Science Tutor*

(1 year)

- Explained basic computer science theory and programming methodologies to other students.
- Helped to troubleshoot students' code to find bugs and to help optimize their code to run more efficiently.

**Towne Air Freight**

South Bend, IN

Nov 2012 – Jun 2013

*Level 1 Support Technician*

(8 months)

- Performed as the primary point of contact for over 1000 internal customers and all external customers for quickly resolving low-level technical issues.

**United States Marine Corps**

Camp Lejeune, NC

Nov 2007 – Nov 2012

*Electronics Maintenance Technician/Supervisor, Non-Commissioned Officer*

(5 years)

- Maintained multiple million dollars' worth of terrestrial and satellite communications systems in the United States, Japan, and Afghanistan.
- Oversaw the work of up to 5 subordinates at any given time.
- Managed deployed armory for battalion while in Afghanistan, including 200+ personal weapons, crew-served weapons, and optic systems at 8 different physical locations throughout the country along with establishing a regularly scheduled maintenance cycle.
- Awarded a Navy and Marine Corps Achievement Medal for performance in Afghanistan.
- Created a system to dynamically track ammunition expenditures by battalion troops.

**Towne Air Freight**

South Bend, IN

Jun 2003 – Nov 2007

*Desktop Administrator*

(4 years, 5 months)

- Performed all non-server computer maintenance for over 1000 internal customers.
- Administered entire inventory of Wyse thin terminals, including creating and deploying customized OS images as well as any and all hardware replacements needed.
- Managed fleet of cell phones used by drivers to remotely enter Proof of Delivery into the system.

**EDUCATION:****Indiana University South Bend**

South Bend, IN

Aug 2013 – Jun 2017

*Bachelor of Science in Computer Science*

(Conferred Jun 2017)

- Graduated with a final GPA of 3.790.
- Received Computer Science Department's 2017 Academic Excellence Award.
- Maintained Dean's List for 8 of 10 semesters attended.