

ELECTRICAL ENGINEER · SYSTEMS ADMINISTRATOR 542 N 100 E, Provo, Utah, 84601, USA

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Work Experience_

L-3 Communication Systems West

Salt Lake City, Utah

Jan 2018 - PRESENT

- Design RF hardware for mission critical systems
- Test and Debug RF hardware

BYU Spacecraft Group

RF ENGINEER

Provo, Utah

Apr 2016 - PRESENT

LEAD COMMUNICATIONS ENGINEER

• Twin satellites will fly in early 2018

- Design an end-to-end satellite communications system within technical constraints
- Lead RF engineering work designing antennas and amplifier systems
- Developed Linux Address Family on-board satellite to support end to end communications
- Developed Ground Station system using an Ettus USRP and GNURadio
- Developed dishes and on-board antenna systems

BYU Computer Aided Engineering Design and Manufacturing

Provo, Utah

Nov 2015 - Jan 2018

- Assistant Systems Administrator
- · Developed Linux Infrastructure to maintain storage, enable authentication and enhance the user experience
- Migrated to a new LDAP cluster and schema using SaltStack
- Implemented MIT Kerberos in the environment using SaltStack

SolvereOne and HouseCall IT

Dulles, Virginia and Washington D.C.

Jun 2013 - Oct 2015

- Maintained and designed secure network deployments
- Deployed and maintained Windows user and application systems
- Managed Linux administration

Education_

SYSTEMS ADMINISTRATOR

BYU (Brigham Young University)

Provo, Utah

B.S. IN ELECTRICAL ENGINEERING

Sep 2015 - Exp. Apr 2019

- · Math Minor
- Lead Communications Engineer on BYU's first small satellite mission

TJHSST (Thomas Jefferson High School for Science and Technology)

Alexandria, Virginia

HIGH SCHOOL DIPLOMA

Sep 2011 - Jun 2015

• Designed NFC System for Senior Research Project

Projects

CCSDS Kernel Driver

LINUX ADDRESS FAMILY

Jul 2017

• Designed and implemented Linux kernel address family that adds CCSDS Space Packet Protocol support

Competencies

Active Directory, LDAP, Kerberos, Cisco IOS, Sophos UTM, Python, Haskell, C, C++, Embedded Development, Windows Server 2008 -2012 R2, CentOS/Ubuntu/Gentoo/RedHat Linux, BSD, Ansys HFSS, Matlab, Mathematica, VMWare vSphere, VMWare View, Microsoft Office 365, Nagios, Apache, NGINX, MySQL, PostgreSQL, HTML5, JavaScript, CSS, Java, Windows XP - 10, ZFS, SaltStack, LTspice, Autodesk EAGLE, Amateur Radio, FCC Licensing, RF Systems, Modulalation, Packetization and Framing, GNURadio, Ettus USRP, Nuand BladeRF, RF Analysis