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Work Experience _____

BYU Spacecraft Group Provo, Utah

LEAD COMMUNICATIONS ENGINEER

Apr 2016 - PRESENT

- Oversee twin satellites will fly in March 2019
- Design an end-to-end satellite communications system within technical constraints
- · Lead RF engineering work including the design of dish and on-board antennas and amplifier systems
- Develop custom ground station system that utilizes an Ettus USRP and GNURadio

L-3 Communication Systems West

Salt Lake City, Utah

Jan 2018 - Sep 2018

RF ENGINEER

- Design RF hardware for mission critical systems
- · Test and debug RF hardware

ASSISTANT SYSTEMS ADMINISTRATOR

• Work in team and follow standard engineering process

BYU Computer Aided Engineering Design and Manufacturing

Provo, Utah

Nov 2015 - Jan 2018

- · 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

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

Education

BYU (Brigham Young University)

Provo, Utah

B.S. IN ELECTRICAL ENGINEERING

Sep 2015 - Apr 2019

· Math Minor

TJHSST (Thomas Jefferson High School for Science and Technology)

Alexandria, Virginia

HIGH SCHOOL ADVANCED STUDIES 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

Writing____

A Guide for Developers in Start-up

Facebook Page

FOUNDER & WRITER

Jan. 2015 - PRESENT

• Drafted daily news for developers in Korea about IT technologies, issues about start-up.

AhnLab

S.Korea Oct. 2012 - Jul. 2013

• Drafted reports about IT trends and Security issues on AhnLab Company magazine.

Publications

UNDERGRADUATE STUDENT REPORTER

Extracurricular Activity

Boy Scouts of America

National Capital Area Council

Jul. 2011 - Present

EAGLE SCOUT

• Designed and manufactured garden signs for the Old Stone House on M. Street in Washington D.C

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, Mentor Graphics Xpedition, RF PCB Layout, RF Testing Equipment (Spectrum, Network Analyzers, etc.), National Instruments AWR, Keysight ADS