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IT Director - Senior Systems Engineer

- Proven experience in providing comprehensive network and infrastructure solutions.
- Linux Systems engineering specialist. – [Linux Foundation Certified Engineer](#)
- Mixed network (Linux, Windows, Mac, Android) integration and security design.
- Angular and Python API designer and programmer.
- Proficient at integrating virtual systems into existing legacy network infrastructure.
- Private and hybrid cloud network Development.
- Up-to-date on latest industry trends, applications and equipment.

Director of Information Technology

Mount Carmel School, Saipan Island - August 2015 – Present

Established an Information Technology Department on the largest private school on the island. Was promoted to a member of the Leadership Team. I made decisive changes and revolutionized workflow in establishing the 21st Century classroom imperative.

A brief of these major accomplishments:

- Rebuilt the entire IT infrastructure and modernized all facets of computing on campus.
- Provided training sessions and organized a tech team to provide granular support to all teachers and administrators, attained a consistent technical proficiency level school wide.
- Developed, programmed, and deployed into production, an on-line project management application (using MEAN stack) to monitor progress of the school's master 5 year strategic plan. Projects were dragging behind schedule, not starting. After deploying the application projects started to move. We fostered accountability and boosted productivity
- Designed, programmed and deployed into production a school admissions web application (using Django/Python), which simplified the school registration process. Parents are now directly managing demographic data which feeds into the school information system (SIS). This increased data accuracy and expedited the enrollment process twofold.
- Recognized and instituted cost cutting measures campus wide, which saw the successful migration to open source applications from the more costly commercial alternative.
- Introduced new technical strategies which had the following effect:
 - Consolidated servers, and reduced hardware maintenance cost.
 - Provided scalable computer pool resources for students and teachers.
 - By phasing out obsolete full size desktops and using thin clients, we realized a substantial reduction in maintenance and electricity cost as well as slashing the per workstation cost by 68%.

Systems Engineer and Administrator

Mango Resort Saipan February 2014 - Present - Saipan, Northern Mariana Islands

A newly renovated hotel with no systems in place.

- Engineered and supervised the installation of all electronic infrastructure for the resort including computer, satellite entertainment, wifi, and office administration systems.
- Developed, programmed and deployed, the property management system (Django/Python) and a desk reservation system. Collaborated with the Resort General Manager to render her ideas into a production ready application.
- With a limited budget, I provided full O/A systems including VDI workstations and support networks.
- Harnessed virtual technology to provide cost effective growth solutions.
- Engineered WiFi zones and placements of AP's using commodity equipment to maintain 100% coverage for all rooms.

Systems Administrator

Seoul English Science Edu-Center August 2011 - February 2014 Seoul - South Korea

A South Korean science observatory and learning center.

- Streamlined the publication of a bi-weekly science periodical. I developed a network of administrative windows and linux computers for data sharing and WebDAV collaboration.
- Maintained computer lab equipment to highest readiness.
- Built and demonstrated an OpenStack Havana for the team to use in the development of science based educational tools in the science research department.

Education

BS Computer Science - National University Sacramento, CA

Nuclear Power School - United States Navy

Electrical Engineering - Michigan Tech University - Houghton, MI

Certification

Linux Foundation Certified Engineer - LFCE

Technology Proficiency Summary:

VM Management: Ovirt/RHEV Manager, OpenStack, VMWare Vcenter

Containers: Docker, Kubernetes, LXD/LXC

Storage Systems: Ceph, Swift, Cinder, Gluster

Scripting Language: BASH, Perl

Development Languages: Python, Django, AngularJS, JavaScript, Flask, C, C++, HTML, CSS, JQuery, PHP

Deployment Tools: Ansible, Puppet, Electron

Interests :

Astrophysics, Wood Crafting, Music Performance

Special Skill:

Speak fluent Korean