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OBJECTIVE

Cybersecurity engineer specializing in vulnerability management along with end-user awareness training. Would love to help organizations set up or enhance existing vulnerability management program. Great for various Systems Integration and Systems Architect positions as well.

At various points in my career worked in various IT positions, experiencing all seven layers of the OSI stack. Most of my career was spent around layers 2-4 doing network engineering for large service providers.

Teaching end-user awareness training targeting folks with limited technical knowledge via <https://www.infosechelp.net>. Authored a book on the topic available at Amazon in both paperback, Kindle, and audio format <https://amzn.to/38LgWmE>. Also contributed to an O'Reilly book <https://smile.amazon.com/dp/B09G9D8NPZ/>

SUMMARY

- Master of Science in Cybersecurity and Information Assurance.
- Close to thirty years in the IT industry, five of those in Cybersecurity and the rest doing Network Engineer
- Born in Iceland, spent about 30 years in the Seattle WA area. Dual citizen Iceland and the USA
- Specializing in Vulnerability management and end-user awareness
- Very passionate about technology and its proper use as well as learning new technologies
- Love to solve problems and find solutions to unique and challenging problem
- Experience with running Vendor and product selection.

EXPERIENCE

ADVANIA ÍSLAND., REYKJAVIK ICELAND

02/21 – 01/22 (FTE)

Principle Cybersecurity Engineer, Security Operation Hosting and Operations

- Worked on reviewing and updating existing policies and procedures as well as created new security focused policies one of which was a brand-new vulnerability management policy.
- - Reviewed existing security tool set, created product requirement documents and selection criteria for each of them and conducted vendor evaluation projects to select the most suitable product based on business requirements.
- - Worked with customers to review their vulnerability management policy and procedures and advised them on how to set up their tools properly.

T-MOBILE US INC., BELLEVUE WA

10/11 – 03/21 (FTE)

Principle Cybersecurity Engineer, Digital Security Org (03/20-03/21)

- Promoted from Senior Engineer to Principle engineer after outstanding performance. Same team additional responsibilities on top of responsibilities as a Senior Engineer.
- Responsible for system design, architect, strategy, and engineering related to nationwide vulnerability scanning for the #2 wireless carrier in the US. Currently targeting around 500K systems scanned.
- Includes fine-tuning systems for optimal performance, solving issues that come up, etc.

- Leading projects, mentor others, help solve issues, etc.
- Responsible for the design and implementation of merging Sprint systems into T-Mobile US systems post T-Mobile Acquisition of Sprint.

Senior Engineer Cybersecurity, Digital Security Org (10/17- 03/20)

- A member of the Vulnerability Management team, whose mission is to perform penetration testing, responsible disclosure, and vulnerability management.
- Product owner for vulnerability scanning, and as such, I am responsible for strategy, design, and strategy of vulnerability scanning for all of T-Mobile US Inc (third largest Cellphone provider in the US).
- I work with an outsource company to handle actual day to day operation of the scanning platform and handle scanning requests from various business units.
- Redesigned and replaced vulnerability scanner for 90% of a network consisting of over 500K IPs, resulting in faster and more reliable scans while saving the company around \$3M annually based on projected growth.
- Wrote python scripts to assist with asset management, reporting, and data analysis, that export data out of the scanning solution and stores it in MySQL database.
- Wrote Asset reporting website in PHP to display asset information out of the MySQL database.

Senior Network Engineer Core IP Service Delivery Engineering (2/16- 10/17)

- After completing my rotational assignment I am back in the service delivery group managing deployment projects for various business units.
- Helping Service Delivery Engineer become more comfortable with automation, by training fellow team member as well as members of other teams in how to use HPNA to make bulk changes.
- Working on a project to standardize, document and automate 400+ line ACL across 120 routers. Currently ACL is wildly inconsistent, and no one understands it. Changes to it are currently totally manual taking over 200-man hours to complete over a period of 4 weeks. Working to bring that down to around 5-man hours over a period of 5 days.
- T-Mobile ERT Building/floor co-captain as well as the chair of the T-Mobile Safety committee.

Senior Network Engineer Signaling System Engineering (8/15 – 1/16)

- Was selected for a rotational development program where you get assigned to a team you have little to no experience with and get six months to get up to speed on whatever that team is responsible for.
- Assigned to team that handles all the SS7, Sigtran, SIP peering, ENUM, LNP and SRF/SRP.
- Wrote a comprehensive engineering document packet for their ENUM system, including documenting all connectivity, Reference Design and training deck.
- ENUM is also known as ITU E.164. Their ENUM system handles Local Number Portability (LNP), SIP Routing Function (SRF) a SIP Routing Proxy (SRP).

Senior Network Engineer Core IP Service Delivery Engineering (10/11 – 7/15)

- Responsible for design and implementation of the core routing between all the mobility platforms (Packet core) enabling cellphones to get to the internet. This includes routing for devices such as SGSN, GGSN, MME and S/P Gateway. This involves a lot of work configuring eBGP internally on Cisco ASR9K running IOS-XR
- Integral member of the team that rolled out the initial LTE network at T-Mobile, hailed by many as fastest nationwide rollout of LTE by any US carrier. Project came in under budget and ahead of schedule.
- Subject matter expert for routing aspects of SGSN's, MME's and Private APN partner connections.
- Deployed 28 Nokia ATCA MME's to 20+ locations in just over 2 months. Was able to meet super aggressive timelines using automation scripting which cut the timeline to deploy in third.
- Designed and lab tested new network design for connecting Private APN partners, in partnership with partners. This new design provided them with much needed flexibility and resiliency
- Designed, lab tested and managed a FOA implementation for a brand-new Cisco ASR 5500 GGSN/S&P Gateway. Received an award for how fast and smoothly it went.
- Promoted to Lead Engineer in August 2014, leading two other full-time engineers involved with Packet Core, in addition to various borrowed regional resources and temporary contactors.

- Member of T-Mobile Emergency Response team (ERT). Working with ERT leadership to setup an Amateur Radio support group for emergency communications, registering with FCC and establishing partnership with City of Bellevue Office of Emergency Management as well as the American Red Cross.

DENALI ADVANCED INTEGRATION, REDMOND WA

4/11 – 10/11 (FTE)

Senior Network Engineer

- Member of their professional services team going to customer's sites and solving their issues.
- Was requested by Microsoft to be placed on their account to help them build out their online services using Cisco Catalyst 6500, Catalyst 4848, Cisco Nexus 7K and Juniper MX960.

CLEARWIRE US LLC, KIRKLAND WA

11/09 – 4/11 (FTE & Contractor)

Network Engineer

- As a member of the Core Network Design Engineering worked on design and architecture projects to upgrade existing core network. Also worked with commissioning engineering to build out new sites.
- Worked as a SME representing the Core networking in selection of new tooling.
- SME for one-off legacy networks. Redesigned them to bring more redundancy and manageability to these networks.
- Proposed an alternative to the new high capacity core design that would save the company \$130K per new site without compromise in performance, availability or redundancy.
- Recruited to work as full-time employee after excellent performance reviews as a contractor.
- Developed a device inventory system with Perl, PHP and MySQL to respond to inventory audit requirement that scanned specified network ranges for active devices then used SNMP to gather detailed inventory information on that device.
- Used Cisco 7600, Juniper MX960, Juniper EX series, Ciena 5305

ALASKA AIR GROUP, SEATAC WA

2/09 – 10/09 (Volt Contractor via Qwest)

Senior Network Engineer

- Maintained and operate their corporate wide network including datacenters, terminals and corporate offices. Network consisted of Cisco catalyst 2960 and 3750 switches as well as Cisco 2800 and 3800 routers with Cisco Catalyst 6509 at their core.
- Member of a team that redesigned/re-architecture and upgraded their network using Cisco products including building out a new core with Cisco Catalyst 6509, aggregation layer with 3750 and 2960 at the access layer.
- Redid an upgrade design for their flight operation building that saved the company over 60% over the previous design without compromising features, performance or reliability requirements. Project on hold due budget issues.
- Evaluated new tooling. Installed and configured the selected tools
- Documented their network using Microsoft Visio, including datacenter, operations, corporate network and airport network.
- Participated in the 24x7 on call rotation
- Managed IP addressing via Diamond IP's IPControl as well as DNS entries via Microsoft DNS services and F5 GTM.

CRANE CO, AEROSPACE GROUP, LYNNWOOD, WA

9/08 - 2/09 (Contractor through CDI Corp)

Senior Network Engineer

- Documented and inventoried existing network where none existed using Microsoft Visio
- Implemented Cisco ASA 5520 as Site to Site VPN and migrated corpnet traffic onto it.
- Evaluated devices for new network architecture standard
- Redesigned existing network for improved reliability and stability
- Maintained and operated their entire corporate network as their only network engineer. Network consisted of Cisco 3550 as the core routers and Dell Power Connect Switches at the access layer.

Network Engineer (02/06 – 09/08) [FTE]

- Performed proactive problem analysis for the network that supports most of Microsoft's internet presence, including Hotmail, Messenger and Windows Update. Analysis used mixture of home-grown tools, Network General Sniffers and Wireshark. Responsible for providing root cause analysis for any outage that occurred.
- Served as escalation point for the network incident management team
- Served as Capacity Management and switching subject matter expert
- Participated in virtual teams responsible for on-boarding new device and technology including Juniper T-640 and Foundry Switches.
- Participated in security and compliance virtual teams
- Supported one of the largest datacenter networks in the world, with one of top internet egress volumes running on Juniper T-640 at the core and variety of Cisco switches and routers in the none-core parts. Predominately Cisco Catalyst 6509, Cisco Catalyst 4948, Cisco 3800, Cisco 7200, Cisco 7600, Cisco 12000, and Cisco 7500.
- Participated in 24x7 on call rotation

Network Engineer (7/04 – 02/06) [Contractor & FTE]

- As a member of the network incident management team, ensured health and continuity of networks for services that serve hundreds of millions of people around the world, including Hotmail, MSN Instant Messenger, and MSN Search. This network runs on Juniper T-640 at the core and variety of Cisco switches and routers in the none-core parts. Predominately Cisco Catalyst 6509, Cisco Catalyst 4948, Cisco 3800, Cisco 7200, Cisco 7600 and Cisco 12000. Participated in the on-boarding of F5 BigIP 6800 LTM, received 80 hours' worth of training and operationally supported them.
- Respond to network alarms across the world and provide remote resolutions to MSN Networking communities in 5 countries on 3 continents.
- Recruited to work as full-time employee after excellent performance reviews as a contractor.
- Team was staffed 24x7 and did not have on call rotation. Worked both 2nd and third shift.

EDUCATION

PACIFIC LUTHERAN UNIVERSITY, Tacoma, WA: *BS in Computer Engineering*, 1994

WESTERN GOVERNORS UNIVERSITY, Salt Lake City UT: *MS Cybersecurity and Information Assurance* 2019

OTHER:

- Certified Ethical Hacker, EC Council 2018
- Computer Hacking Forensic Investigator, EC Council 2018
- SANS SEC560 Network Penetration Testing and Ethical Hacking, SANS Institute 2018
- SANS SEC460 Enterprise Threat and Vulnerability Assessment, SANS Institute 2019
- Enterprise Incident Response Training, Mandiant 2018.

MISCELLANEOUS

HOBBIES AND INTERESTS:

- Web development using PHP and MySQL
- Scripting in Python, VBScript and Perl. Library available at <https://bitbucket.org/siggib007/>
- Ballroom, Latin, and Country Western style dancing
- Live Theater and music performances
- Staying up on the latest trends in Cyber security
- Learning about AWS, Azure, GCP, Digital ocean, etc. Serverless Design and Digital Architecture.