Harold Sanders

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KEY QUALIFICATIONS

Telecommunications Engineer, Network Engineer and Project Manager with advanced to expert level of experience in:

- WAN and LAN communications including 20 years of Cisco and 16 years of Juniper based solutions.

- Configuring and troubleshooting Cisco and Juniper routers; layer two/three switches, hardware and IOS/JUNOS.

- Designing Content Delivery Networks and POP architecture

- Hands on knowledge of EGP and IGP routing protocols (OSPF, BGP), NetBackup, VMware and RedHat.

- Design, development and implementation and support of complex communications networks encompassing WAN, MAN and LAN technologies to create secure national military grade communications system.

- Experienced in IA documentation and requirements for DITSCAP/DIACAP certification

- Network design and integration using Type-1 crypto devices and also familiar with IPSEC and GRE tunnel configuration.

CLEARANCE

Active DoD Secret and Interim Top Secret

CERTIFICATIONS

- DoD 8570 Certifications

- Security + Certification

- Mitel 250 Certificate- Frontier Telecommunications – Rochester, NY

- AVAYA ACSS – Avaya factory training and Certificate – Juneau, AK

- Novell 4.10 CNE Certificate - Cumberland University, Nashville, TN

- Microsoft NT Certificate - Cumberland University, Nashville, TN

- Project Management Certificate (PMI) - SONY Magnetic Products, Dothan, AL

- Microsoft Exchange Server 2003 - Pearl Harbor, HI

- CISCO training and certifications (CCNA, CCNP) - BellSouth, Nashville, TN, US Government, Montgomery, AL 2012

- Juniper training and certification (JNCIS-SP) – BellSouth, Birmingham, AL, US Government, GCI, Anchorage, AK

- Programmable Logic Controllers training for Allen Bradley, Texas Instruments, General Electric and Whitney. - SONY Magnetic Products, Dothan, AL

- Computer Numeric Control - Bridgeport CNC School - SONY Magnetic Products

- Computer Numeric Control - South Bend CNC School - SONY Magnetic Products

- Machine Shop Equipment Training with Sony Magnetic Products, Dothan, AL

- Intergraph CAD- CAM - University of Alabama, Huntsville, AL

- ORACLE (RDBMS) training and certifications - BellSouth, Birmingham, AL

- HUAWEI training and certifications - BellSouth, Birmingham, Al

- CITRIX training and certifications - BellSouth, Nashville, TN

- AT&T 1A, 2B, 4E, 5E and VoIP switch certifications - BellSouth, Nashville, TN

- Nortel switch DMS and the SL1 certifications - BellSouth, Nashville, TN

- Ericsson switch certifications - BellSouth, Nashville, TN

- Siemens switch certifications - BellSouth, Nashville, TN

- Stromberg Carlson switch certifications - BellSouth, Nashville, TN

- Nokia switch certifications - BellSouth, Nashville, TN

- AVAYA training and certifications(ACIS) (ACSS)- BellSouth-Atlanta, GA, US Government, GCI-Anchorage, AK

- Granite training - BellSouth- Birmingham, Al

- Omnibus/NetCool training - BellSouth, Birmingham, Al, US Government, Kabul, Afghanistan

- Bell Core Training (250 hours): Switch training, broadband training, facility training, computer fundamentals, all the required training for a BellSouter Electronics/Switch Technician including translations of all of BellSouth switches, routers, fiber optics and hubs.

- Installation and calibration of LMU

- SS7 training

- HP advance training – SONY, BellSouth, AT&T, Verizon and US Government.

- CRAM training, 2CBMC – US Army – Huntsville, Al

EDUCATION

- MSEE training equivalent, Vanderbilt University, Nashville, Tennessee

- BSEE training equivalent, University of Alabama at Huntsville, Huntsville, Alabama

- Training equivalent to BS: Bell Core, Telecommunications (1997)

- AAS; Wallace Community College, Electronics Engineering Technology, fiber optics, assorted radios FM, HF, VHF, UHF, Satcom, robotics, microwave, digital communications and advance computer engineering.

PROFESSIONAL EXPERIENCE

Analyst Adviser for MDA / Inside Global

Jan 2019 – current

- Working as a senior Subject Matter Expert on IRES, missiles, program for the Missile Defense Administration.

- Troubleshooting GPS anomalies as it relates to target accessing.

Telecommunications Adviser/ Digiflight

May 2018 – Jan 2019

CTSS III – Kuwait

- Worked as the Telecommunications Engineer at Camp Ajab in Kuwait.

- Verified OSP fiber runs for the communications for the USAF at the base.

Network Engineer   Department of State / All Native Group

December 2017- Jan 2018

- Working on the secured networks for the Department of State

- Installed and managed secured Wireless Access Points and secured PBX systems

- Experience with TCP/IP, SIP, H.323, RADIUS, IPSec, TLS, PKI protocols

- Experience in design or integration device-to-device communications with remote login to devices throughout several floors of the Department of State building in DC.

- Design and do heat maps to plot out the access positions per floor.

- Worked with the Avaya Messaging system on new installs, CTI, CMS

Secured System Administrator   FBI / Avaya Government Solutions

March 2017 — September 2017 (6 months)

- Working at the Edgar J Hoover building with the FBI as a secured system administrator on their secured Avaya PBX system for all remote FBI sites nationwide and in several countries. Experience in design or integration device-to-device communications with remote login to devices

- Performed password resets and establish new accounts on the live network and worked with the Point of Point(POP)

- Installed software patches to upgrade the equipment to latest versions used languages used are Unix, RedHat, Linux and C.

- Assist in the redesign and deployment of secured network to include new secured equipment, secured routers, secured switches and optical systems.

Technical Engineer   Frontier Telecommunications

August 2015 — March, 2017 (1 year 7 months)

- Working in the (CPE – NOC) as a senior network engineer

- Served as a POC and at the POP for network related issues and for FCC reported issues. Experience with TCP/IP, SIP, H.323, RADIUS, IPSec, TLS, CDMA, LTE or GSM, PKI protocols

- Experience in design or integration device-to-device communications with remote login to devices

- Working as a senior level technical engineer on the Mitel 5000 PBX and the assorted equipment and HP Blades, optical networks, performed remote upgrades on central office equipment and assisting field technicians in performing technical projects

Network Engineer   GCI

January 2015 — July 2015 (6 months)

- Working on special projects, verifying the network configurations (VoIP), making software configurations for specific locations and working on schools and hospital network configurations on Avaya switches and routers, Juniper switches, PBX and routers and CISCO Call Managers, HP Blades switches and routers

- Used NetCool and Xing software

- Unpacked the equipment, did a power start up on the equipment and software patches update

- With the help of a cut sheet for each site, I went into the configuration mode of the Juno equipment and set the location, time and date

- Upgraded the equipment with the latest software version

- Was supervised by Avaya factory technicians and was recertified on Avaya as a ACSS level

- Designed the installation of the FTTH for the schools

- Used the Granite Database for record keeping

- Tools used for testing: T-berd, meters, software programs, assorted hand tools

IP Engineer   US Coast Guard Rescue 21

September 2014 — January 2015 (4 months)

- Working as a Senior IP Engineer on the US Coast Guard Rescue 21 network

- Testing new equipment prior to deployment

- Tools used for testing: T-berd, meters, software programs, assorted hand tools

- Used Avaya switches and routers, Fiber Optics test equipment and CISCO CUCM, switches and routers. Experience with TCP/IP, SIP, H.323, RADIUS, IPSec, TLS, PKI protocols

- Experience in design or integration device-to-device communications with remote login to devices

- The equipment that was used were VHF radios, assorted computers and proto-type communication networks such as VoIP and microwave

Radio Adviser   **NSA / Department of State**

February 2013 — August 2014 (1 year 6 months)

- Senior Radio Adviser to DoS, nation of Liberia INL and NSA

- Worked in cooperation with the INL and the NSA of Liberia to implement and manage nationwide radio coverage for the law enforcement such as cellular, fiber optic networks, NIPR, SIPR and CENTREX

- Used CISCO, Brocade and Juniper equipment

- Worked with Motorola based out of South Africa on the proper selection of VHF radio to meet the locations terrain

- Worked on shell scripting for different software configurations and the installation of fiber to the co-location sites

- Tools used for testing: T-berd, meters, software programs, assorted hand tools

- Served as a Point of Contact (PoC) for technical issues

Telecommunications Adviser for NATO

Leonie

August 2011 — December 2012 (1 year 4 months)

- Senior Telecommunications Adviser to NATO, nations of Afghanistan and US

- Senior adviser to NATO in the rebuilding of the wireless telecommunications

- Work with the local population and the US ARMY in the nation's new network placement of cell towers

- Worked with the TOC data center in various parts of the world

- Worked with several types of spreadsheets, NetCool, Remedy, Xing, UNIX, MS Office Suite, Oracle ERP 11i, Brocade, Juniper and CISCO equipment

- Designed and installed armor cladded fiber to the TOC (FTTH)

- Calculate power consumption at cell sites along with surveys on the equipment

- Used NetCool as monitoring software and to report troubles in the system

- Used Xing to keep track of the equipment

Network Engineer, FOB Sharana, Afghanistan / Lockheed Martin

August 2010 — September 2011 (1 years 1 months)

- Full time work in Afghanistan working with the US Army on military projects such as the PTDS and UTAMS and with missiles fire control systems.

- Working as a senior network engineer with technicians and engineers on a daily schedule with their data center

- Worked with CISCO switches, NetBackup, Juniper EX series routers, Brocade, shell scripting in LINUX, Armor Cladded Fiber Optics splicing (FTTH), Oracle 11i and UNIX

- Used NetCool as monitoring software and to report troubles in the system

- Have my Security + Certification

- Tools used for testing: T-berd, meters, software programs, assorted hand tools

- Recertified on CISCO, JUNIPER and AVAYA equipment

- Meeting deadlines mandated by the US Army

- Managed VSAT communications and hardware such as NIPR, SIPR, CENTRX and cellular