Pieter E Smit

Ruimsig, Johannesburg, South Africa

Executive summary

I am a experienced network engineer (wan/lan&security), with experience in implementing systems to systematically improve IT service delivery. Looking for a challenging job with a company where I can make a difference. Currently employed as Facilities Architect, looking after network, hardware (server & storage) and data-center architecture as well as risk.

PERSONAL DETAILS

Nationality:*South African*   **ID:***7010035052085*,   **Passport:***Yes*
Date of Birth:*1970-10-03*   **Married:***Yes*   **Driver License:***Yes*
Health: *Excellent*   **Criminal Record:***None*
Languages: F*luent in both English and Afrikaans.*
Sport & Hobbies: *Squash, Hiking, Scuba Diving, RC planes, Golf, Electronics.*

EDUCATION

- ✓ Graduated from Stellenbosch University, with a BSC in Electronic Engineering, in 1993 (Bursary from SABC)
- ✓ Diploma in Engineering Management from the University of Pretoria Business School (2002).
- ✓ Passed CISCO CCNA exam and Microsoft certified Professional exam
- ✓ Multiple courses in project management and networking technology
- ✓ Linux LPI-101 & 102 certified (2008) **LPI ID** LPI000087203
- ✓ Linux.Redhat RHCT(2009) CertificationNum(605009601027555)
- ✓ Currently Busy with CCNP certification
- ✓ Management training courses.

PERSONAL TRAITS

Systematic approach to problems and tasks.
Self motivated, and capable of breaking down problems and tracking down root cause of issues.
Enjoy finding creative solutions to problems.
Team player, enjoy sharing knowledge.

PROFESSIONAL SKILLS

Network design and trouble shooting expertise (15Years+).
Experienced in systematic problem determination and solving, across it disiplines.
Leading technical teams, and encouraging staff to take responsibility for tasks.
Project management training and experience in IT projects.
Internet security & company risk identification.

Achievements

- 1994 Junior Engineer at SABC responsible for operation of Video switching during elections for worldwide broadcasts.
- 1996 Electronic design, equipment specification, and successful commissioning of CD audio dubbing facility at SABC.
- 1997 Network Engineer at SABC responsible for planning and move to structured cabling, replacement of bridges to branches with routers.
- 1998 Lotus Notes Administrator as Clover, responsible of setup and roll out of email and group-ware infrastructure countrywide with 30 remote servers
- 2000 Network Specialist Clover, redesign 50 site wan infrastructure into more cost-effective topology, replacing frame-relay with Channelized E1's at Head-office, part of the project was design of new structured IP sub-netting country wide, still in use today.
- 2001 Member of technical team at Clover under lead of Gemini consultants that executed tender and installation of new 120 seat redundant call center.
- 2002 Network Specialist at Clover, implementation of radio link wan backup to critical branches in Gauteng area to provide high speed redundancy.
- 2003 Network Specialist – Replace failing AIX based network monitoring with simplified Windows SNMPc network monitoring system. Setup of sms notifications.
- 2003 Network Specialist at Clover implement Linux based traffic volume and error graphing using RRD database, still used till today. Extended this to Flow recording from Core routers for traffic breakdown by protocol on wan links.
- 2004 Network Specialist responsible for design of new HQ lan, moving to new buildings, implementing HSRP, Vlan's, Core and aggregation switches, Rapids spanning tree + HSRP to achieve sub second fail-over and dual star redundancy.
- 2004 Network Specialist – role-out of first Wifi to warehouses as part of warehouse management systems. Currently a total of 7 warehouses and HQ wifi enabled. Integrated with AD authentication allows personnel to roam at any of the locations using multiple SSID's.
- 2006-2007 Network Specialist – Setup of central radius server, and templates to start the reconfiguration of all Cisco network equipment to use central authentications, and SSH as standard protocol.
- 2007 Network Specialist – Setup of Linux wiki, to allow country wide warehouses to record wireless scanner and printer details in a central locations to keep track of equipment and configuration.
- 2008 Network Specialist – Setup of Linux redundant firewalls, capable of exposing DMZ servers to multiple provider(IS & Neotel) IP ranges, and moving primary SMTP mail to Un-caped ADSL as a cost reduction exercise.
- 2009 Network Architect – setup of IPSec VPN connections using DMVPN to Zambia over a shared Satellite link, as well as GRE tunnel backup links over Cisco 3G modules as backup to primary links.
- 2010-2011 Network Architect – ubank analyze network design and equipment identifying problem areas and improvements. RFP to preferred vendors, for DWDM, Voice, VSAT, Data-center upgrade. Radio upgrades and

improvements implementing Layer 3 segmentation to eliminate spanning tree problems.

- 2012-now Facilities Architect – Clover S.A. Stabilize and improve Nexus data-center core, fixing design and implementation problems.
- 2013-Involved in evaluation and selection of new data-center storage, implementing SVC switches with synchronous storage across two XIV's, for our Vmware environment.
- 2013-Automate and standardize configuration of 300+ standalone wifi AP's used in warehouses and offices.
- 2014-Design centralized voice breakout to least cost providers, resulting substantial cost savings. Improvement of network to five large sites to provide 99.9% availability through a multi-provider connectivity strategy.
- 2014@Clover implement new Sophos UTM FW with automated fail-over, and vpn integrated with AD authentication and Certificate pushed to each desktop.
- 2015-Plan migration of GPS tracking dataflow of trucks from tightly coupled to Message queue to improve stability of planning and tracking system for fleet.

Ad-hoc achievements (Summary)
- Gradual migration of Clover branches form Token ring to Ethernet.
- Evaluation and motivation of gradual migration to VoIP with centralized call-managers started in 2006. (Currently 7branches with IP phones).
- Training and development of junior network personnel.
- Setup and evaluation of longterm network equipment provider.
- Setup of procedures and standards for Linux based warehouse servers.
- Setup of configuration standards for cabling and equipment configuration.
- Centralized syslog and tftp infrastructure in support of network administration.
- Setup and maintenance of documentation wiki to document network information and and simplify distributed updates by network team.

WORK HISTORY
CLOVER, Roodepoort, South Africa

March 2012 – current

IT Facilities Architect (2012 → Current)
- *Cisco Nexus core stabilization and redeployment of equipment.*
- *XIV – svc storage upgrade for Data-center to enable storage synchronization and fail-over for VMware environment.*
- *Central breakout of corporate wide voice, resulting in significant savings.*
- *Migration of redundant corporate Fortigate FW to Sophos UTM active/passive FW, implementing ssl vpn access with two factor authentication integrated to Windows AD(Acrive Directory), utilizing dual provider link for internet access.*
- *Develop python script to deploy temperated configuration to 320 Cisco AP's, spread over 34 branches, to keep configurations consistent, and allow for speedy role-out of config changes, avoiding R2M controller setup.*
- *Redundant L2 mpls highspeed links using multiple providers to provide 99.99% uptime to 5 critical factory's.*

UBANK, Sunninghill, South Africa

Feb 2010 – March 2012

Network Architect
- Responsible for guiding the network team, and 3rd level problem resolution, compiling a company network strategy.
- Designed, and procured dark fiber and DWDM equipment for high-speed connectivity between data-centers.
- Move extensive (126 branch) radio network from flat L2 design to L3 routed design to improve stability and simplify trouble shooting.
- Implement VSAT connectivity as backup to branches in-case of communications failure.

CLOVER, Roodepoort, South Africa

September 1997 – 2010

Network Architect (2010 → Current)
- *Member the IT network management team.*
- *Responsible for Network architecture, looking at Network, Voice, 80branches, 200 radio links.*
- *Redesign, and implementation of remedial plans to fix network instability.*
- *RFP for network and voice upgrade, DWDM and dark-fiber, APN and Internet redesign.*
- *Automation of partner link fail-over, to reduce downtime during failure.*

Network Architect (2008 → 2009)
- *Responsible for IT architecture, looking at Network, Servers, AS400.*
- *Risk-management for IT devision, evaluating different frameworks.*

Network Specialist/Manager (2000 → 2008)
- Sizable Cisco network (50 sites country wide), connections to agents, dial-up user, ISDN backup, radio links, 3Gmoduls, VoIP and links to partners.
- In 2002 I was offered the opportunity to become a contractor to Clover through labor broker Highveld

Personnel, this afforded me the opportunity to also pursue the development of a load balancing Linux software for a open source company.

Notes Administrator (2yrs → 1998/9)
- Contacted by former manager, I accepted a new challenge as notes administrator.
- Managed 30 notes servers countrywide, serving email and applications.
- Setup policies and procedures, day to day admin and trouble shooting.
- Responsible for the technical side of web site and all email.
- Trained IT 1st line support staff.
- Provided 2nd Line support and problem resolution.

<u>**SOUTH AFRICAN BROADCASTING CORPORATION (SABC), Auckland Park, South Africa**</u>
January 1994 – September 1997
Broadcast Studio Design (1.5yrs – 1994/5)
- I did holiday work at SABC(Sentech Branch) while studying, when I graduated i started at the SABC in the project department Studio Technology.
- Involved in 2 big projects
    - Implementation and maintenance of audio video switching center for 1994 elections
    - Design, Implementation and commissioning of CD dubbing studio.
- I was also involved in the setup and evaluation of tenders for Electronic equipment.

IT Network Engineer (1yr - 1995)
- Assistant to the Network Specialist
- Implementation of new network projects.
- 2st Line network support, assisting PC support teams.
- Maintenance of HP Openview management station.

IT Network Specialist (2yrs – 1996/7)
- Network specialist resigned and I was offered the job.
- Design and planning of new network projects.
- 2nd Line network support for the it support staff.
- Liaising with our network provider Dimension Data.

REFERENCES

Ubank:
Doug Vela(CIO)
Anton Giacometti(Head IT Facilities – Direct superior)
Pooven Pillay(Manager Facilities - Colleague))
Clover Business:
Johan Keulder
Clover IT:
Francois Swanepoel(Group Manager IT - Direct superior)
Werner Jansen Van Vuuren(Manager Networks),
Willie Maritz(Manager AS400 + Voice&Mobile),
Christo Wepener(Manger AS400),
Jaco Smuts(Architecture Manager)

Numbers and more references available if required.