



ARCHITECT/ENGINEER NETWORK DATACENTER



- ◆ High level technical expertise
- ◆ Looking for technological challenges
- ◆ Curious, great aptitude to learn
- ◆ Freelance

EDUCATION

- 2006 : **Ph.D.** in nanotechnology (CNRS – passed with highest honours).
- 2003 : **Master's degree I** in geology (University Joseph Fourier of Grenoble, with honours).
- 1995 : **Master's degree II** in computer science (CNAM, University of Montpellier II, with honours).
- 1994 : **Master's degree II** in microbiology (University of Montpellier II, with honours).
Engineer in Agronomy from National Agronomy School of Montpellier.
- 1989 : Baccalauréat **F7** in biological science, option biochemistry (with honours).
1^{er} Price in Olympic National Chemistry, 1^{er} Price in National Competition in Biochemistry.

HIGHLIGHTS

- ◆ Broad range of technical and scientific training (Ph.D/Engineer degree), resulting in a significant open-mindedness and real analytical capabilities. CCNP/CCDP.
- ◆ Strong technical background in Network and Security, acquired during ten years of experience.
- ◆ Natural aptitude in knowledge transfer and scientific/technical writing.

LASTEST WORK EXPERIENCE

- 10/2013 : **Defence & Space**, creation of a securized communication infrastructure for a integrated border security system, Paris (1 year and 5 months).
- 06/2012
- Architecture**
- IP addressing plan for all different kinds of subnets (data, interconnection, administration).
 - Design of the Joint Operations Center (JOC) Datacenter, with Cisco Catalyst 6500 in VSS mode and Cisco Nexus 5000 in vPC mode.
 - Design of the Quality of Service (QoS).
 - Writing of the Low Level Design (LLD) document.
- Engineering**
- Technical lead for the integration, securitization and optimization of a global prototype (with all different types of LAN sites).
 - Engineering of multicast routing for the forwarding of the video flows : IGMP, IGMP snooping, PIM dense mode (Stub), PIM sparse mode, MSDP (anycast).
 - Engineering of the Quality of Service (all Cisco platforms, scheduling, queueing, shaping, policing, marking, congestion management).
 - Technical lead for the follow-up and resolution of technical nonconformity (NC).
 - Writing of tests sheets, technical support during the acceptance tests.
- Environment : Cisco Nexus (5548, 2248) and Catalyst (6506, 4506, 4503, 3750X, 2960S/G), Cisco ASA (5520, 5540, 5585, AIP-SSM/SSP), Cisco ISR (3945), Cisco ASR (1004), TCP/IP, STP, etherchannel, VSS, vPC, FEX, HSRP, EIGRP, BFD, PIM dense/sparse mode, MSDP (anycast), SNMP v2, encryptor Crypto AG HC 7825/7845, unidirectional diode device.

EXPERIENCE

05/2012 : **IBM Global Services**, IT Datacenter Specialist, Lille (1 year and 4 months)

02/2011 **Architecture**

- Consulting during the writing of the HLD (urbanization, interconnection with the existing network, design of the OOB network, design of a frame capture network).
- Lead redactor for the writing of the LLD : production network, non-production network, administration and backup network, OOB network, LAN campus, interconnection with existing MAN/WAN, access control (AAA), frame capture.
- Technical animation during client workshops.

Engineering

- Leader for the implementation of prototype in final configuration : Cisco Nexus 7000, 5000, 2000, Cisco Catalyst 6500 to 4500, service module Cisco ACE and Cisco NAM.
- Implementation of AAA access control : Cisco ACE 5.2, TACACS+ (authentication, authorization per shell profiles and command sets, accounting of commands) and RADIUS (authentication, authorization per VSA attributs, accounting).
- Field qualification of the prototype : writing of the tests procedures, running of the tests with the final client, implementation of changes and optimization.
- Writing of technical procedures for exploitation team. Knowledge transfer to IBM team, final client, exploitation team.

Environment : Cisco Nexus (7010, 5010, 2248) and Catalyst (6504, 4507, 3750X, 2960S, 2960), LAN Datacenter/Campus, TCP/IP, spanning-tree, flex-link, etherchannel, SSO, vPC, VDC, FEX, HSRP, OSPF multi-area, VRF-lite, load-balancing (Cisco ACE 20, One-Arm L3, multi-contexts), Cisco ACS 5.2 (AAA radius/tacacs+), frames capture (SPAN/RSPAN/ERSPAN Cisco NAM-2), Netflow, SNMP v3/v2c, Gigastor/Observer.

12/2010 : **Group AG2R/La Mondiale**, DSI, Chartres (4 years)

01/2007 **Network Architect/Engineer**

- Technical leadership (design, implementation and support) for massive 802.1x deployment on all sites : authentication of workstations, printers (MAB), IP phones with dynamic assignment of data and voice vlan, enforcement.
- Design and implementation of a campus site in Lille. 5 buildings, 800 users.
- Design, implementation and optimisation of a metropolitan area network (MAN) in Paris with high availability. VRF lite, OSPF multi-area, redundant inter-VRF routing.
- Writing of technical documents: architecture design, technical specifications, migration plan, prototyping reports. 3nd level Network Support.
- Team training in routing & switching.

Security Engineer

- Design and implementation of a high availability security platform (Cisco ASA in A/A mode, multi-context, asymmetric routing) for the messaging system (8500 mailbox).
- Technical expertise on a VPN security platform. Filtering, installation of site-to-site (L2L) VPN extranet/internet and client-to-LAN (C2L) VPN (IPSEC and SSL portal).
- 3nd level support for the group's Internet platform (6000 users).
- Prototyping of a NAC solution for LAN and VPN access (Cisco NAC/Macfee PE).

Environment : Cisco, LAN/MAN/WAN, TCP/IP, switching, spanning-tree, etherchannel, 802.1x, DHCP snooping, DHCP, DAI, IP source guard, POE, HSRP, advanced routing, OSPF multi-area, VRF-lite, IP SLA, firewall ASA/PIX/Checkpoint, large ACL management, Cisco ACS 4.1 (radius/tacacs), VPN IPSEC, ToIP (Avaya, Alcatel), virtualization.

EXPERIENCE

- 12/2006 : **CNRS (National Center for Scientific Research)**, Orléans (3 years and 3 months)
10/2003 **Ph.D.** (nanotechnology/ precambrian micropaleontology)
- Advanced imaging techniques (AFM, MEB, TEM, FIB, Raman, SXM, Optical).
 - Presentation of work in front of international audiences during workshops.
 - Publications in peer-review journals (Organic Geochemistry, Surface Science).
 - Stanley L. Miller Award for outstanding contributions to origins of life research.
- 08/2002 : **Hewlett-Packard**, Grenoble (1 year and 3 months)
06/2001 **Network engineer**
- 2nd network support in operational and international environment (HP EMEA network, business partners and outsourcing customers).
 - Network security (firewall PIX, Nokia, Checkpoint).
 - Writing of technical documents and incidents reports.
- Environment : Routers Cisco (760 to 7500), switches (Cisco, HP), firewall Cisco PIX (506 to 535), Nokia (IP440 to IP650) and Checkpoint, ARS Remedy, HP-UX.
- 05/2001 : **Geoman.Net**, Quimper (1 year and 2 months)
04/2000 **Webmaster**
- Design and implementation of two outreach Internet website.
 - Scientific writer : writing of scientific articles and documents.
- Environment : NT4 Server and Workstation, LAN, Internet.
- 03/2000 : **BNP Paribas**, Paris (3 years and 1 month)
03/1997 **Systems engineer**
- Design, validation and deployment of software packages with incidents follow-up and resolution. Writing of technical reference documents.
 - System administration, management of the antivirus solution. 2nd level support. Development of various automation scripts (VBS, Perl, SQL).
- Environment : NT4 Server and Workstation, SMS, InstallShield, Macfee.
- 12/1996 : **Airbase of Nancy-Ochey**, fighting squadron 2/3 Champagne (1 year and 2 months)
11/1995 **Military Officer** (computer specialist)
- Systems and Network administration. Design of databases.
- Environment : Netware, Windows 95, Access.

Personal interests

- Languages : English, French (native).
- Hobbies : Creative writing, gemmology, scientific outreach, movies.
- Traveling : Patagonia (Chile/Argentina), Atacama (Chile/Bolivia), Tanzania (Kilimandjaro), Indonesia, Iceland, Reunion isle, Sahara, Oman, Sicily, Finland, Scotland, South Africa, United Arab Emirates, Guyana, United States. Desert exploration and Andinism.