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31 years old, single.

French citizenship.



This document may be downloaded on [www.schmurr.net](http://www.schmurr.net)

## Network and Systems Expert

### MISSION

Apply and learn new skills in networking, security and systems as a polyvalent element. Keen on challenges and at ease in datacenters environments, I am also efficient in large scale troubleshooting, emergency situations, self management and communication in a multicultural environment.

### SKILLS

#### Network:

- Great understanding of **TCP/IP** protocols, VPN, IPv6, IPSec. Network routing and switching technologies on various physical supports (LAN, WAN, wireless, power line carrier), DVB basics and concepts of VoIP.
- **Backbone** maintenance, **routing** protocols (BGP, ospf), multilayer switching.
- High speed and redundant network design, implementation and evolution, with security and performance in mind, audit. Load balancing, failover (vrrp, hsrp). Multi vendors network management.
- Network **management**: audit, measure of resources, bandwidth management, monitoring, statistics, capable of planning and taking quick emergency responses/decisions.

#### Security:

- Network design and maintenance pertaining to its security: policy routing, access lists, **Firewalls** implementation, **security policy**, DMZ, security trainings, remote access management and security trainings.
- Extensive experience in systems security: jailed environments, virtual servers. Log analysis, system integrity checks.
- **Intrusion detection** and origin tracking. Systems and application **audit**. Systems vulnerabilities knowledge.

#### Systems:

- **UNIX**: configuration, maintenance, tuning, security and audit of servers. Lot of experience with open source software (Linux, \*BSD) and Solaris.
- Windows and Mac systems.
- PC, Sun and Cisco hardware.
- System integration, systems failover, server load balancing.
- Automatic system management (applications and system resources monitoring, security patches) and scalable systems design (volume management, virtual servers). **Virtualization** (Xen, VMWare).

#### Network services management:

- **e-mail** (SMTP, POP and IMAP), including spam fighting and antivirus techniques.

- **Web** (Apache, php, cgi, HTML, XHTML, XML, CSS, CMS, Ajax), caching (squid, Inktomi traffic server), reverse proxies and websites/intranet development.
- DNS (bind, DNSSEC, wrote management tools)
- **databases** (MySQL, Oracle basis, PostgreSQL)
- FTP, authentication protocols, directories, Public Key Infrastructure (**X509**) ...

Basic programming skills (C, perl, Pascal, shell and php languages), mainly for automating tasks.

Ease with graphics, sound, video, documentation management, office tools and miscellaneous applications.

## **LANGUAGES**

French: mother tongue.  
 English: fluent, especially in the professional context, many travels.

## **EXPERIENCE**

Network Computing Expert, **Celimage**, Luxembourg **since 2005**

Celimage provides broadcasting and IT services, focusing on green and open source solutions.

- Dedicated Internet hosting platform setup – to meet both special requirements and keep security under control.
- Web applications and Web sites development (PHP, SQL, Perl, CSS, HTML).
- On demand (virtualized) IT infrastructure audit, design, advice and services.
- Remote System and Network administration, clients monitoring, maintenance, disasters recovery, ...
- Critical production environments relocation
- Project Management technical support, business plan and strategy studies and analysis.

*(Ref. Gérard Bonnevey, CEO)*

IT Infrastructure and security analyst, **GAX**, Luxembourg **2005**

GAX is a Web and financial software company providing e-banking, CMS, consultancy and on demand services.

- Corporate network and UNIX System Administration.
- Web banking platform IT infrastructure design.
- Web applications and servlets setup.

*(Ref. Alex Kampa, Managing Director)*

Consultant, **Celimage**, Luxembourg **2004 – 2005**

- Network and datacenters migrations, systems integration, knowledge transfer and documentation. (France, Luxembourg, Norway)
- Technical advisories.
- IT requirements audit.
- Internet hosting.

*(Ref. Gérard Bonnevey, CEO)*

Network and Systems Engineer, **Europe Online**, Luxembourg 1999 – 2004

Europe Online provides broadband Internet and streaming services via satellite over Europe, Caucasus, Middle East and North Africa

Implementation of technical solutions for **Internet** access and content management via **Satellite**: technical platform design and management.

- Complete responsibility of UNIX servers and IP Networks. Setup and management of Linux, \*BSD and Solaris systems.
- Installation of a **high speed redundant network** with Cisco (7200 to 12000, PIX, Catalyst), HP, Skystream and Alcatel equipment including IP and DVB networks.
- Quality of Service (QoS) management (Packeteer, Cisco, BSD).
- Servers setup and maintenance (e-mail, DNS, Web, Intranet, Newsgroups, FTP, Proxy, database, IDS, etc...)
- **Security policy** design and application. Security audit and management (patches, operations)
- **IP backbone** management, including evolutions.
- Development of technical tools, **troubleshooting**, stability improvement of the systems.
- Datacenter management (including moves), deadlines challenges and self-management.

*(Ref. Jeff Hustad, CTO & Candace Johnson, CEO)*

External Contractor, **Sun Microsystems**, France (78) 1999

- Administration and management of remote hosts, mostly in production environment.
- Systems and applications upgrades, programming of statistics tools pertaining to systems' load and availability.

Network and Systems Administrator, **France Telecom Oléane**, France (92) 1998

- Installation, security, and maintenance of e-mail, proxies and Firewalls. Extranet deployment.
- Tools development allowing automatic massive Cisco routers production.
- **Advice** and technical support for customers and within the company.

## EDUCATION

- Over 24 years personal computing experience, computer geek.
- Self-learning, autodidact, using books and online resources.

IFCC (Luxembourg Chamber of Commerce) – Company management 2008

Introduction to Strategy, Accounting, Financial analysis and planning, Taxation, Legal aspects, Labor and commercial law, ...

Vocational Trainings, Luxembourg 2000

Traffic Server Proxy server software training from Inktomi

OmniStack switches training from Alcatel.

Some College Coursework Completed 1996

Level 3 in Industry and Laboratory Physics (BTSTPIL)

L.E.G.T.P Jean Rostand, Strasbourg, France

## MISCELLANEOUS

- Cycling, hiking, swimming and badminton (frequent).
- Extensive usage of computers and home automation technologies at home.
- Personal use of computer aided art (graphics, movies, music mixes).
- Internet services management for non profit organizations and individuals.
- Affinity for traveling, nature and multicultural environments.