

Guillaume Mazoyer | Network/IT Engineer

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Experience

LuxNetwork S.A.

Network/IT Engineer

Bettembourg, Luxembourg

since 07/2014

o IP/MPLS backbone design/testing/management

- In charge of a European IP/MPLS backbone from design to day to day management
- Management of the design, costs, purchases, tests, deployment, automation and documentation
- Production of customers services, point-to-point and multipoints L2VPN, L3VPN

Keywords: Juniper MX/QFX/EX/SRX/Fusion, IS-IS, MPLS, RSVP, MP-BGP, BFD, L2-Circuit, VPLS, IPVPN

o BGP and ISP network design/testing/management

- In charge of network composed of 10G and 100G transit and peering connections
- Production of customers services, direct Internet access, BGP transit
- Network monitoring, DDoS mitigation, automation using open-source softwares

Keywords: Juniper MX, BGP, Flowspec, Peering, Automation, Netflow, IPFIX

o Information System

- Virtualization using KVM with Proxmox hosting Debian VMs automated using Ansible
- Use of open-source softwares to document, track changes and help in network automation
- Development of tools to improve existing softwares

Keywords: NetBox, Peering Manager, Looking Glass, Python, REST, SOAP, KVM, Debian

LuxNetwork S.A.

Network/IT Engineer Internship

Ehlerange, Luxembourg

02/2014 – 07/2014

Final internship for Engineering Degree validation. Study of the design of an IP/MPLS core network for Network Service Providers. Applying links colorization and traffic prioritization techniques using the RSVP protocol.

IUT of Belfort-Montbéliard

Part-time teacher

Montbéliard, France

10/2013 – 12/2013

Teaching during labs sessions of network programming in Java for students in last year of Networks and Telecommunications Technical Degree.

GNOME

Google Summer of Code Student

06/2013 – 09/2013

Improvement of the java-gnome code generator (that generate the JNI and the translation layers of the bindings) to make it able to use Introspection data that are distributed with all GNOME libraries.

TRINAPS

Engineer Assistant Internship

Belfort, France

09/2012 – 02/2013

Studies, sizing, costing and tests in laboratory of virtual desktop infrastructure. Transfer of acquired skills and knowledges about virtualization products made by Citrix, VMware and Microsoft.

Scilab Enterprises

Google Summer of Code Student

Versailles, France

05/2012 – 08/2012

Contribution to the development and port of Scilab on the Android operating system. Understanding of software portage techniques. Cross-compilation of Scilab to make it work on the Android device.

Debian

Google Summer of Code Student

05/2012 – 08/2012

Contribution to the packaging of the future Java modular virtual machine. Understanding of the packaging techniques and of the Java build system. Packaging of required libraries to run the unit tests of the JVM. Oral presentation of the work during the Debian annual conference.

TRINAPS

Advanced Technician Internship

Belfort, France

02/2011 – 06/2011

Development of a web application to share files (<https://drop.trinaps.com>). State of the art studies, specifications writing, application development and release.

LIFC (Laboratoire Informatique de l'Université de Franche-Comté)

Network Technician Internship

Montbéliard, France

03/2008 – 08/2008

Setup of a VoIP platform using Ethernet and WiFi technologies. Development of an application to modify binaries captures writing in C language. User documentation writing and application tests.

Education

- **University of Technology of Belfort-Montbéliard** **Belfort**
Engineering Degree in Computer Science, Networks and Telecommunications. 2011 – 2014
- **Institut Universitaire de Technologie de Belfort-Montbéliard** **Belfort**
Professional Degree, Administration/maintenance of Distributed Applications Systems. 2010 – 2011
Degree obtained with honors.
- **Institut Universitaire de Technologie de Belfort-Montbéliard** **Montbéliard**
Technical University Diploma, Networks and Telecommunications. 2006 – 2008

Technical skills and interests

- **Network protocols:** Comprehensive OSI/TCP-IP knowledge and great troubleshooting and audit skills. Good IPv6 knowledge. GNU/Linux networking expertise (netfilter, quagga, bird, iproute2, misc. utilities). Good knowledge of MPLS/MP-BGP architectures, associated protocols (IS-IS, OSPF, LDP autoconfiguration, RSVP) and MPLS enabled services (L3 VPN, L2 pseudowire, VPLS, EVPN). More than 5 years experience in Carrier Ethernet and Network Service Provider technologies.
- **Network hardware:** More than 5 years of experience with JUNOS on Juniper MX, EX, SRX, ACX and QFX platforms (JNCIA/JNCDA). Experience with IOS for switching and routing (CCNA). OSPFv2/v3, IS-IS, iBGP/eBGP and filtering on these platforms. Good knowledge of 802.11 Wi-Fi technologies. Automation using open-source softwares such as NAPALM and Nornir.
- **System administration and services:** Excellent knowledge of: OpenSSH, Apache2, DNS (Bind9, Unbound, Knot), NSD Dhcpcd, Rsync, NFS. Skills with Proxmox virtualization system (KVM/OpenVZ) and Hyper-V. Daily use of Ansible to deploy and manage physical and virtual machines.
- **GNU/Linux:** Daily server and desktop usage. 10 years experience. Mostly Debian based distributions.
- **Other UNIXes:** Good knowledge of OS X. Basics on BSD and Solaris.
- **Programming:** Python, Go, PHP, Bash, Java. Git, Subversion.

Languages

- **French:** Native language
- **English:** Advanced, TOEIC score: 885/990. *Very good comprehension and expression.*

Hobbies

- **Motorbike:** Casual rides.
- **Sciences, Physics, Astronomy:** No particular knowledge, just curious.
- **Video games:** Mostly PC gaming, single-player and cooperative games.
- **Leisure computing:** Free and open-source software, active developer for several projects.