

Guillaume Mazoyer | Network Engineer

4 Rue du Roi Albert – 57070 Metz – France

+33 6 10 52 37 09 • jobs@mazoyer.eu • [mazoyer.eu](https://www.linkedin.com/in/gmazoyer/)
<https://www.linkedin.com/in/gmazoyer/> — <https://github.com/gmazoyer>

Experience

F5

Remote - Metz, France

Network Engineer

Since 11/2021

○ **BGP, DDoS mitigation network design/testing/management**

- In charge of worldwide network composed of 10G and 100G transit and peering connections
- Production of services such as BGP transit, L3VPN, and more
- Network monitoring, DDoS mitigation, automation
- Participation to on-call duties

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

○ **Global anycast network design/testing/management**

- In charge of worldwide high availability anycast network
- Production of services, monitoring, automation

Keywords: Juniper MX, QFX, BGP, VRRP, EVPN, L3VPN

○ **Network automation design/deployment/usage**

- Coding of various network automation related tools
- Leverage of open-source software technologies and integration with specialised tools

Keywords: Juniper, BIRD, BGP, Ansible, Python

RESTENA Foundation

Esch-sur-Alzette, Luxembourg

Network/IT Engineer

09/2020 – 11/2021

○ **EVPN/VXLAN backbone design/testing/management**

- In charge of a national EVPN/VXLAN network from design to day to day management
- Management of the design, costs, purchases, tests, deployment, automation and documentation
- Production of customers services, layer 2 and layer 3
- Management of network edge (transit, peering)
- Use of open-source softwares to document, track changes and help in network automation

Keywords: Adva, Arista, Cisco, OSPF, MP-BGP, BFD, EVPN, VXLAN, Ansible, Python, Automation

○ **LU-CIX backbone management - Luxembourg Commercial Internet Exchange**

- Production of customer services
- Network monitoring and evolution

Keywords: Adva, Cisco, BIRD, BGP, EVPN, VXLAN, Ansible, Automation

○ **Luxembourg DDoS scrubbing center design/testing/management**

- In charge of a national scrubbing center to mitigate DDoS (like) attacks
- Development of tools for monitoring, tracking, documenting and managing the infrastructure
- Participation to on-call duties for crisis responses

Keywords: Adva, Arista, Radware, BIRD, BGP, Flowspec, Netflow, Ansible, Python

LuxNetwork S.A.
Network/IT Engineer

Bettembourg, Luxembourg
07/2014 – 08/2020

- **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 customer 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
- **BGP and ISP network design/testing/management**
 - In charge of network composed of 10G and 100G transit and peering connections
 - Production of customer services, direct Internet access, BGP transit
 - Network monitoring, DDoS mitigation, automation using open-source softwares

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

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.

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. Presentation of the work during the Debian annual conference.

Education

- **University of Technology of Belfort-Montbéliard** **Belfort**
Master's Degree in Engineering - 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, BIRD, iproute2, misc. utilities). Extended 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 7 years experience in Carrier Ethernet and Network Service Provider technologies.
- **Network hardware:** More than 7 years of experience with Junos on Juniper MX, EX, SRX, ACX and QFX platforms (JNCIA/JNCDA). Experience with Cisco IOS/NX-OS as well as Arista EOS for switching and routing. 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 Ansible.
- **System administration and services:** Excellent knowledge of: OpenSSH, Apache2, DNS (Bind9, Unbound, Knot), and other services. Skills with Proxmox virtualization system (KVM). 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 macOS. Basics on BSD.
- **Programming:** Python, Go, PHP, Bash, Java. Git, Subversion.

Languages

- **French:** Native language
- **English:** Advanced, TOEIC score: 885/990 (2011). *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 maintainer for several projects.