# Gabriel Ripert

**Systems Engineer** · Engineering student at CPE Lyon · Cybersecurity major

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Versatile systems engineer on an engineering apprenticeship (work-study) since 2023, covering a broad scope: virtualisation, Linux and Windows systems, networking, backup, automation and orchestration. I work from design through to production, in isolated industrial environments with strong security constraints. A fast learner, I am now seeking a 9 to 13-week international internship to complete my engineering degree.

## EXPERIENCE

### Systems Engineer · EDF · Apprenticeship
Lyon · 2025 – Present

- Run Linux application hosting for power generation sites (nuclear, thermal, hydro) across 6 isolated environments and nearly 4,000 virtual machines.
- Designed Kubernetes target architectures for isolated sites: deployment scenarios, resilience, network and security constraints. Benchmarked OpenShift, Nutanix NKP, K3s and RKE2 / Rancher, wrote a recommendation report and presented it to the management committee.
- Integrated Active Directory authentication (SSSD, Kerberos) for Linux applications in a dual-forest environment, and rolled it out across all Linux virtual machines with Ansible AWX.

### Systems and Network Administrator · Atos / Eviden Worldgrid · Apprenticeship
Échirolles · 2023 – 2025

- Administered the site's IT estate and network (VMware, Proxmox, Active Directory, H3C switches, pfSense, GLPI) and provided level 2 and 3 support.
- Monitored Veeam and Arcserve backup jobs, managed LTO tape rotation under the business continuity plan and ran restore tests to verify backup integrity.

**Advanced Proxmox expertise:**

- Designed and carried out the full migration of a VMware virtualised infrastructure to Proxmox (6 servers, 100–120 VMs), converting and optimising the virtual machines.
- Set up and managed a high-availability cluster with redundant iSCSI and Ceph storage.

**Automation and audit with Ansible:**

- Automated EDR deployment (Microsoft Defender for Endpoint).
- Automated security audits: log collection, compliance checks and dynamic reporting with Jinja2.

### Network Technician · Orange · Internship
Ardèche and Drôme · 2022

- Shadowed network technicians in the field: local loop, copper network, business and residential fibre.

## EDUCATION

### Master's-level Engineering Degree in Computer Science
2025 – 2028 (expected)

CPE Lyon. Diplôme d'Ingénieur. Computer Science and Communication Networks, cybersecurity major. Apprenticeship.

### Bachelor of Technology (BUT) in Networks and Telecommunications
2022 – 2025

IUT1 Grenoble. Cybersecurity track, apprenticeship. Ranked first in year group.

### French Baccalaureate (A-level equivalent)
2021

Lycée du Sacré-Cœur, Tournon-sur-Rhône. Highest honours (mention très bien).

## SKILLS

- **Infrastructure architecture**: design, solution benchmarking, recommendation reports
- **Virtualisation and backup**: Proxmox VE, VMware vSphere, Nutanix, Ceph, Veeam
- **Networking**: pfSense, Cisco, Wireshark
- **Orchestration**: Docker, Kubernetes, OpenShift, Rancher
- **Languages**: French (native), English (C1).
- **High-security environments**: isolated sites, strict security requirements
- **System administration**: Linux (RHEL, Debian), Windows Server, Active Directory
- **Automation**: Ansible, AWX, Jinja2, Bash, Python
- **Monitoring and IT management**: Centreon, Zabbix, GLPI