

Hernán Calvo

Computer Engineer — Systems, Networking & Automation
Madrid, Spain · github.com/Hernies · hernies.net

SUMMARY

Computer engineer with hands-on experience in Linux systems, network security (VPN/IPSec, X.509/PKI) and infrastructure support. Currently the sole IT engineer for Alibaba International's European offices, covering server administration, provisioning and asset management. AWS Cloud Foundations trained and studying an MSc in DevOps, with practical use of GitHub Actions CI/CD, Docker, systemd and Bash/Python scripting on self-hosted projects.

PROFESSIONAL EXPERIENCE

ALIBABA INTERNATIONAL (Madrid, Spain) 01/2026 – Present
IT Engineer — Europe · Sole IT engineer for the European offices

- User support and helpdesk for all of Europe: onboarding and offboarding, meeting rooms, laptop lifecycle.
- Server setup and coordination with the global Infrastructure team on system images.
- Redesigned the device provisioning process for new hires.
- IT asset and stock management, including a refresh program for laptops over 48 months old.
- Rolled out AppleCare Enterprise coverage for the European fleet.

REAL ENERGY SYSTEMS (Madrid, Spain) 06/2023 – 06/2024
R&D Department · Internship → full-time contract

- Supported the VPN/IPSec infrastructure (StrongSwan) securing thousands of field devices.
- PKI: X.509 certificate issuance for devices and services.
- Systems administration: Linux servers, NAS administration with LDAP.
- Developed and maintained PHP tools for automation data visualization.
- Automated recurring tasks and resolved technical incidents; exposure to GitLab, Prometheus and Grafana.

PROJECTS

Self-hosted assistant on Raspberry Pi 5: Python service in production: syncs a university calendar (ICS) into Google Calendar every 30 min.

- Idempotent sync with guarded deletions (only after two runs without the event, capped per run); pytest suite.
- Hardened systemd unit and timer (ProtectSystem=strict, NoNewPrivileges, syscall filter); secrets kept out of git.

NixOS configuration: Declarative workstation setup with Nix flakes, split into shared and per-host modules.

github.com/Hernies/nixos

hernies.net: Personal site (Astro) built and deployed with GitHub Actions CI/CD. hernies.net

Homelab: KVM/libvirt virtual machines for RHEL practice.

EDUCATION

UNIR 2026 – Present
Master's Degree in DevOps (in progress)

Beihang University 北京航空航天大学 (Beijing, China) 2025
Academic exchange — Mandarin Chinese

Universidad Politécnica de Madrid (UPM) (Madrid, Spain) 2019 – 2025
Bachelor's Degree in Computer Engineering
Thesis: NILM, AI applied to household energy consumption (C++, custom dataset, multithreading)

CERTIFICATIONS

- AWS Cloud Foundations (IAM, EC2, VPC) — training (AWS Academy)

TECHNICAL SKILLS

- **Systems:** Linux (Ubuntu, NixOS, RHEL, Raspberry Pi OS), systemd, Windows 10/11, KVM/libvirt
- **Network & security:** VPN/IPSec (StrongSwan), X.509/PKI, LDAP, Fortigate
- **Scripting & code:** Bash, Python, C++, PHP, Java
- **CI/CD & tooling:** Git, GitHub Actions, Docker, Nginx, Apache, MySQL basics
- **Monitoring:** Prometheus, Grafana (exposure in R&D)

LANGUAGES

Spanish (Native) · English (Bilingual) · Mandarin Chinese (B1 (HSK3), preparing HSK4)