# Chihabeddine Merabet

## Telecom & IP Network State Engineer

Telecom and IP Networks State Engineer, graduated from ENSTTIC in June 2025, with hands-on experience in system and network administration, monitoring, and infrastructure configuration. Currently working as a System and Network Administrator, with strong organizational skills and a fast-learning mindset. Seeking a Network Engineering role.

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## Contact Information:


Phone: +213666324206

Location: El Eulma, Sétif, Algeria

Email: chihabeddine.merabet@ensttic.dz

LinkedIn: linkedin.com/in/chihab-merabet

GitHub: github.com/chihab-merabet

Website: chihab-merabet.github.io


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## Skills:

**Network Administration:** IPv4/IPv6, TCP/IP, DNS, DHCP, VLAN, VLSM, NAT, STP, SNMP, Syslog, NTP, SSH, FTP.

**Network Engineering:** RIP, OSPF, EIGRP, IS-IS, BGP, MPLS, QoS, SDN (OpenFlow), SD-WAN (Cisco Viptela).

**Network Security:** ACLs, Firewall Policies, IDS/IPS, IPsec & SSL VPN, Application Control, Fortinet Security Fabric.

**Network Systems:** Cisco, Huawei, Juniper, Fortinet, Sophos, MikroTik, D-Link, OPNsense, pfSense.

**System Administration:** Windows Server, Active Directory, Linux (Ubuntu, Kali), VMware (ESXi, vCenter, vSphere), Proxmox VE, Elastix & FreePBX Server, Openfire Server, Zabbix Server, Veeam Backup & Replication.

**Telecommunication Engineering:** VoIP, xDSL, MSAN, FTTx, 2G (GSM), 3G (UMTS), 4G (LTE), 5G (eMBB, mMTC, URLLC), Fibre Optics (PDH, SDH, WDM, DWDM).

**Data Centre & Cloud Administration:** Storage, Virtualisation, Containers, Cloud Computing, Backup & Disaster Recovery, Business Continuity.

**Software Tools:** Cisco Packet Tracer, GNS3, EVE-NG, Wireshark, Huawei eNSP, VMware Workstation, Lansweeper, PuTTY, SolarWinds, Visual Studio Code, XAMPP, MATLAB.

**Additional Skills:** Programming (C, Java, Python), Web Development (HTML, CSS, JavaScript, PHP), UI/UX (Figma).

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## Experience:

**System Tools and Telecommunications Network Administrator** **July 2025 – Present**

Pharm Invest SPA | El Eulma, Sétif, Algeria

- Install, deploy, provision, configure, monitor, and troubleshoot network, server, and system infrastructure.
- Perform structured cabling and cable management (Ethernet) as well as optical fibre installation and maintenance.
- Install, configure, and maintain IP camera (CCTV) systems.
- Implement and manage network security solutions, including firewall policies, application control, and web filtering.
- Configure and monitor site-to-site and remote access connections (VPN).
- Configure, operate, and monitor GSM hardware and VoIP systems.

**Intern – Circuit Switched Network (MSC)** **March 2025 – April 2025**

Optimum Télécom Algérie (Djezzy) Mobile Switching Centre | Sétif, Algeria

- Observed and assisted with the operation of MSC equipment for 2G and 3G mobile networks.
- Gained exposure to circuit switching, call routing, and core telecom infrastructure.
- Learned about traffic management and fault monitoring within mobile core networks.

**Intern – Backbone & Core Network (EMRC)** **July 2024**

Algérie Télécom Établissement de Maintenance des Réseau Cœur| Sétif, Algeria

- Participated in backbone network operations involving OSPF, IS-IS, BGP, MPLS, and MPLS-VPN.
- Observed the deployment and monitoring of leased lines, EVPNs, and enterprise connectivity.
- Assisted engineers in troubleshooting routing protocols and Juniper equipment using Junos OS.

**Intern – Mobile Radio Access Network (UOP)** **August 2023 – September 2023**

ATM Mobilis Unité Opérationnelle | Sétif, Algeria

- Involved in 2G (GSM), 3G (UMTS), and 4G (LTE) base station configuration and performance checks.
- Learned about frequency planning, BTS cell configuration, and RNC/BSC operations.
- Supported technicians in on-site network optimization tasks.

**Intern – Fixed Network and fibre Optic (CT & CMP)** **July 2022**

Algérie Télécom Centre de Transmission & Centre de Maintenance de la Production – El Eulma, Sétif, Algeria

- Assisted troubleshooting of fixed-line services and customer premises equipment (CPE).
- Assisted with fibre optic installations and maintenance of MSAN-based infrastructure.

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# Education:

**State Engineer in Telecommunications and IP Networks** **December 2020 – Graduated in June 2025**

École Nationale Supérieure des Télécommunications et des Technologies de l'Information et de la Communication (ENSTTIC) | Oran, Algeria

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# Projects:

**Final Year Project – Implementing SD-WAN over Traditional WAN for Enterprises**

- Deployed Cisco Catalyst SD-WAN 19.2.0 using GNS3 and VMware Workstation Pro 17
- Simulated real-world enterprise scenario with custom IPS/IDS and URL filtering security policies

**Internship Project – Advanced Simulation of an Enterprise MPLS-VPN Network with QoS**

- Designed a full MPLS-VPN architecture using GNS3, simulating a service provider backbone
- Used OSPF for client routing, IS-IS for core routing, and BGP for inter-AS communication
- Implemented QoS policies to prioritize VoIP traffic and tested performance under congestion

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# Certifications

- HCIA-Datacom V1.0
- ISC2 Certified in Cybersecurity
- Oracle Cloud Infrastructure 2025 Certified Foundations Associate

# Languages:

- Arabic – Native
- English – Fluent
- French – Professional