# Carlos Alvarado

## Technology Solutions Architect

Network architecture · Hybrid cloud · Automation · Security & wireless
Tegucigalpa, Honduras | +504 9471-1044 | carlosalpo@gmail.com
linkedin.com/in/carlosalpo | Open to remote work and international relocation

**22+ years in infrastructure · Regional scope across 7 countries · CCIE #67192**

Technology architect and regional technical leader with 22+ years in telecommunications and enterprise infrastructure. Connects network design, hybrid cloud, security and automation with hands-on delivery. Leads senior architects and implementation teams across Central America and the Caribbean, with a focus on operational continuity, clear technical documentation and repeatable engineering practices.

## Professional experience

### Technical Lead - Regional Network and Cloud Architecture

GBM | Jan 2026 - Present

- Lead four senior architects across seven countries and serve as the final technical escalation point for enterprise, service provider and government infrastructure.
- Design Cisco ACI, Nexus Dashboard, Catalyst Center, SD-Access and SD-WAN solutions, connecting enterprise fabrics with AWS, Azure and GCP.
- Introduced Terraform and Ansible into delivery; built AI-assisted assessments and established architecture review standards and implementation-team training.

### Regional Solutions Architect - Data Center and Security

GBM | Jan 2015 - Dec 2025

- Led data center and security architecture for banking, telecommunications and public sector accounts; supported complex designs through capacity analysis, TCO modeling and technical escalation.
- Developed technical enablement programs for country pre-sales teams adopting Cisco platforms and technologies.

### HW Sales Representative / Regional Networking Product Specialist

GBM | Aug 2012 - Jan 2015

- Designed data center, cloud, service provider and security solutions for regional accounts; advised on MPLS, DWDM and virtual infrastructure.

## Earlier engineering and teaching roles

**Head of Engineering / Engineering Manager** | NETEL / NETEL S.A.
Jan 2010 - Aug 2012 · Telecommunications delivery, team coaching and design validation.

**Networking Instructor** | New Horizons, San Pedro Sula
Jan 2010 - Aug 2012 · Networking instruction for Cisco CCNA and CCNP candidates.

**Senior Support Engineer** | NETWAY
Jan 2009 - Dec 2009 · Network/security implementation and technical pre-sales.

**Senior Networking Engineer** | Millicom International Cellular / Celtel S.A.
Jan 2008 - Sep 2009 · Nationwide LAN/WAN, security policies and Avaya telephony.

**Network Engineer; earlier L1 Telecommunications Engineer** | Hondutel
Network Engineer: Jan - Dec 2007; L1 role: before 2007

# Selected work & capabilities

Carlos Alvarado | Architecture through implementation

### Regional SDN transformation | Financial services

Architect and technical lead for migrations across **20+ financial institutions in 7 countries** over five years. Designed ACI, SD-Access, SD-WAN and VXLAN/NDFC architectures, led migration execution and trained delivery engineers.

### Multicloud interconnection | Retail enterprise

Designed connectivity across Azure, AWS, GCP, IBM Cloud and Oracle Cloud. Combined Equinix interconnection, SD-WAN Cloud OnRamp and selective OTV with traffic engineering for service consumption and replication.

### Infrastructure as code | Provisioning and microsegmentation

Built Terraform models for Cisco ACI multi-tenant self-service provisioning, including firewall policy. Designed and implemented microsegmentation provisioning automation for a Costa Rican enterprise using Kubernetes, OpenShift and IBM Power LPARs.

### Security telemetry and network access control

Integrated firewall data with Splunk and correlated events with Catalyst Center. Designed and implemented Cisco ISE network access control with the delivery team.

### Industrial wireless | Container port operations

Designed and built Cisco Ultra-Reliable Wireless Backhaul with the team for cranes and container transport equipment. Designed coexisting Wi-Fi 7 for handheld devices, supported by RF analysis and infrastructure assessment expertise.

### Applied AI | Infrastructure assessment and network operations

Built local AI-assisted assessment tooling and an MCP-based network operations interface. Device access is mediated by scoped tools; configuration changes require explicit human approval. The conversational interface is in a small-client beta.

## Technical breadth

**Networks:** Cisco ACI, Nexus, Catalyst, SD-WAN, SD-Access; Meraki, Aruba, Juniper, Extreme, Dell, NSX and Fortinet. BGP, OSPF, MPLS, IPv6, QoS and high availability.

**Cloud & platforms:** Azure, AWS, GCP, IBM Cloud, Oracle Cloud and Cloudflare; VMware, Proxmox, Kubernetes, OpenShift, Docker and IBM Power / LPARs.

**Security & wireless:** Cisco ISE, Splunk, 802.1X, RADIUS, TACACS+, cryptography and PKI; RF spectrum analysis, Ekahau, wireless assessments and technical instruction.

**Automation & validation:** Terraform, Ansible, Python, Git, REST APIs, APIC, NETCONF and Netmiko; EVE-NG and GNS3. Live lab practice with containers and virtualization.

## Architecture method

**1** Discovery and workshops. **2** GoodNotes sketches and Visio designs. **3** HLD/LLD, interface tables, BOMs and Network Implementation Plans. **4** Commercial justification. **5** Client deliverables.

## Credentials, education and languages

CCIE Data Center · CCNP Security · CCNP Enterprise

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**Bachelor of Engineering in Electrical Engineering** | National University of Honduras, 1999 - 2006

**Languages:** Spanish: native · English: advanced professional proficiency · French: elementary