

# Antonio Flores

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## SUMMARY

Infrastructure leader specializing in cloud-to-colo migrations and hybrid connectivity, delivering production-ready platforms end-to-end-from BoM/vendor negotiation and financing through buildout, cutover, monitoring, and operational handoff. Designs high-availability private cloud stacks (Proxmox, pfSense, HAProxy, ZFS) that reduce run-rate, tighten RTO/RPO, and strengthen change control. Recent work includes Azure -> on-prem via Megaport/ExpressRoute plus automation, observability, and disciplined incident/RCA documentation.

## EXPERIENCE

### Senior Infrastructure Engineer | Amentum | (Remote) Donna, TX

February 2026 - Present

- Lead the automation of AWS data center MOP workflows for electrical engineering and general construction using SharePoint and Power Automate, reducing manual effort by up to 80%.
- Design and deliver end-to-end request intake and document generation solutions that streamline MOP creation and improve process consistency.
- Produce Mermaid diagrams, technical documentation, and developer handoff artifacts to support implementation, adoption, and long-term maintainability.
- Deliver weekly stakeholder presentations and progress updates, communicating roadmap status, blockers, milestones, and next steps.
- Standardize MOP workflows and documentation practices to improve scalability, governance, and turnaround time.

### IT Systems Engineer, Launch | SpaceX | Starbase, TX

October 2025 - February 2026

- Provisioned and validated mission-critical Integration Network workstations; executed VMware and physical decommission operations to maintain production readiness.
- Deployed and turned up Arista top-of-rack switching supporting avionics and integration labs; coordinated timelines to meet vehicle and test operations deadlines.
- Conducted Integration/Mission network audits and incident triage, correcting misconfigurations to improve reliability and reduce repeat issues.
- Identified optical module instability impacting link health; delivered detailed RCA and corrective actions to prevent recurrence.
- Produced high-fidelity L2/L3 topology maps and as-builts (Visio/draw.io) used to accelerate cross-team troubleshooting and launch readiness.
- Designed the architectural split between Integration and Mission networks, strengthening security boundaries and improving operational resilience.

### Principal Infrastructure Engineer | PCS Software | Houston, TX

May 2025 - September 2025

- Owned the end-to-end Azure -> on-prem colo migration, delivering a production-ready platform (compute, network, storage, security) on schedule and within budget.
- Led vendor strategy and procurement: built the hardware BoM, negotiated pricing/terms, and drove financing and approvals.
- Designed and stood up the datacenter footprint: racks/power, OOB/console access, asset intake, and logistics from PO through delivery and burn-in.
- Provisioned WAN and Azure connectivity (Megaport -> Azure ExpressRoute), implementing routing, QoS, and failover policies for resilient hybrid connectivity.
- Built and administered a highly available Proxmox VE cluster and Ubuntu management/bastion hosts, including HA, backup/replication policies, guest tools, and control-plane services.
- Implemented L2/L3 switching (Extreme Networks; stacked ToRs + MLAG aggregation): VLAN segmentation (prod/mgmt/storage/OOB), SVIs, LACP, and SNMP monitoring.
- Deployed L7 load balancing (HAProxy on Debian) with health checks and mTLS termination for internal services.
- Implemented perimeter/security controls using Netgate 8300 pfSense (FreeBSD): BGP, NAT, VPN, HA (CARP/VRRP), and configuration backup/restore standards.
- Delivered resilient storage using TrueNAS M40HA + expansion shelf (ZFS), integrating snapshots and replication with Proxmox Backup Server.
- Established monitoring/observability and IPAM (syslog, Grafana/Prometheus, phpIPAM) and delivered as-builts/runbooks with Visio/draw.io diagrams; trained ops for steady-state ownership.

### Enterprise Architect | CenterPoint Energy | (Remote) Donna, TX

April 2024 - April 2025

- Partnered with Networking, Security, and Cloud teams to design and plan two new dark-fiber paths, increasing resiliency and connectivity between core data centers (8-12 month initiative).
- Built foundational IT resiliency guidelines and policies by driving gap analyses, risk identification, and roadmap inputs aligned to disaster recovery and business continuity standards.
- Developed the team roadmap and designed the TIR workflow and decision trees, improving process clarity and consistency in technology evaluation and approvals.
- Evaluated Enterprise Architecture tooling with leadership through vendor demos and assessments (LeanIX, Orbus, others) to determine organizational fit.
- Improved the Technology Innovation Request (TIR) process, contributing to a 50% reduction in review time and faster technology approvals.
- Defined IT standards to align infrastructure modernization with business objectives and operational constraints.
- Integrated Azure DevOps (ADO) templates and workflows to support the team's Agile transition and improve delivery visibility.
- Built PowerApps/PowerBI reporting to improve visibility into project and process metrics and support stakeholder decision-making.

**Founder/CEO | Teeam Network Solutions | Dallas, TX****August 2020 - May 2024**

- Led a team of 5 engineers across network, infrastructure, and software; delivered Meraki LAN/Wi-Fi and Firepower security work across 6-7 client environments, from design through operational support.
- Deployed and tuned Cisco Meraki firewalls, switches, and wireless across client sites ranging from 4-6 APs (typical) up to 24 APs (largest), standardizing configurations and security baselines.
- Administered Cisco Secure Client (AnyConnect) VPN; maintained profiles, policies, and access controls supporting remote connectivity for end users.
- Designed and deployed IP camera systems supporting 8-10 cameras per site (typical) up to 110 cameras at the largest deployment, implementing analytics-based alerting and reporting.
- Executed rack-and-stack work in international data centers; installed and integrated Cisco UCS, Dell servers, and Arista core/distribution switching within local standards.
- Delivered end-to-end infrastructure projects spanning network design, device configurations, VLAN segmentation, and security controls to support growth and operational stability.
- Migrated collaboration and identity services from on-prem to Microsoft 365 and Azure, reducing legacy footprint and improving manageability.
- Negotiated vendor contracts and managed procurement strategy for Meraki-centric deployments to control cost and delivery timelines.
- Produced operational documentation (as-builts, change records, troubleshooting runbooks, topology diagrams in Visio/draw.io) to support repeatable operations and handoffs.
- Partnered with clients to deliver custom software that reduced vendor subscription dependency; managed 2 developers and drove requirements through delivery.

**Senior Software Engineer | PayPal | (Remote) Donna, TX****August 2022 - February 2024**

- Rebuilt and migrated staging infrastructure from Debian Stretch to Bullseye, validating compatibility and executing transitions with minimal downtime.
- Automated network configuration using Puppet and Hierarchical Configuration Language (Hiera), reducing manual drift across multiple environments.
- Led lift-and-shift migrations of critical applications and infrastructure from on-prem to AWS, maintaining service continuity and cloud integration.
- Refactored GitHub repositories into Terraform-driven AWS deployments, improving repeatability and deployment efficiency.
- Built a custom IP management workflow, including a Git-integrated duplicate-IP checker to prevent configuration conflicts.
- Administered HAProxy load balancing and BIRD routing to improve availability and optimize traffic flows.
- Developed Bash tooling to generate custom HAProxy logs and integrated telemetry into Datadog to strengthen monitoring and visibility.
- Served as primary on-call engineer supporting critical infrastructure; diagrammed incidents end-to-end in draw.io to accelerate RCA and cross-team handoff.
- Partnered with cross-functional teams to improve execution through Agile practices, strengthening coordination and delivery flow.
- Led annual firewall ACL reviews with stakeholders to refine rulesets and improve security posture.

**Senior Network Engineer | IBM Cloud (acquired SoftLayer Technologies) | Dallas, TX****January 2014 - August 2022**

- Built and maintained WifiConsole (PHP), a backend automation platform that provisioned and managed customer-facing network gear using DHCP/ZTP plus Bash/Python deployment scripts; integrated with internal APIs to deliver consistent device configs and speed OOB break/fix.
- Operated large-scale network infrastructure across 60 data centers, supporting L2 switching, routing, and wireless platforms to maintain availability and performance for enterprise clients.
- Led network security initiatives aligned to SOC 2 and FedRAMP requirements; implemented controls, executed vulnerability remediation workflows, and automated patching to reduce exposure.
- Delivered Carrier-Grade NAT and BYOIP services; partnered with A10 Networks to design and deploy architecture that expanded address flexibility and improved customer offerings.
- Drove vendor-led upgrades and escalations across Cisco/Arista/Juniper platforms, coordinating troubleshooting and change execution to improve global network stability.
- Implemented monitoring and alerting using Nagios, Grafana, and Splunk, improving detection and response for network performance and availability issues.
- Produced and maintained network documentation in Confluence, including as-builts and topology diagrams in Visio/draw.io to support operations and future expansion.
- Led new data center turn-ups, delivering standardized builds for firewalls, routers, switches, and PDUs and integrating sites into the existing backbone.
- Trained and mentored global teams on deployment standards and automation workflows, covering switch provisioning, wireless AP configuration, and operational runbooks.
- Served as on-call escalation for high-priority incidents; partnered with the NOC to restore service quickly and drive post-incident follow-ups.

**Windows System Administrator | SoftLayer Technologies (formerly The Planet) | Dallas, TX****October 2011 - December 2013**

- Administered global Windows server infrastructure across international data centers; executed hardware upgrades, patching cycles, and performance monitoring to maintain stable operations.
- Managed Active Directory identity services; provisioned accounts, groups, and access controls to maintain secure, consistent authentication and authorization.
- Built and maintained Group Policy Objects (GPOs) to enforce security baselines, standardize user environments, and control desktop configurations.
- Resolved Tier 2/3 Windows issues (logon, file/NTFS shares, printer deployments, profile/performance), restoring service quickly and reducing user downtime.

- Owned backup operations and disaster recovery readiness; validated restore procedures and maintained recovery runbooks for critical systems.
- Delivered standardized Windows imaging; maintained golden images and deployment workflows to improve build consistency across departments.
- Monitored performance and security telemetry with Nagios and Splunk; triaged alerts, performed health checks, and drove corrective actions.
- Administered DNS/DHCP services; maintained addressing, scopes, and name resolution to support reliable internal connectivity.
- Supported VoIP deployments; configured Cisco Call Manager components and troubleshoot call routing/registration issues to maintain service availability.

**Enterprise Services Coordinator | The Planet (acquired by SoftLayer Technologies) | Dallas, TX**

**January 2007 - September 2011**

- Led deployment and maintenance of critical datacenter infrastructure (servers, storage arrays, firewalls, and network gear) across three large-scale facilities, maintaining high operational standards.
- Delivered custom colocation builds, executing rack/stack, structured cabling/fiber, and network device installation to meet client requirements.
- Conducted network audits and produced fiber patch-panel as-builts, improving traceability and reducing downtime risk during maintenance and upgrades.
- Supported new-site buildouts, converting raw space into operational environments by coordinating racks, power, servers, and switching for successful site launches.
- Implemented and validated redundancy/failover designs with senior engineers, improving resilience during power and network events.
- Provided hands-on operational support (break/fix, troubleshooting, remote-hands coordination), driving timely resolution with clients and internal teams.
- Executed decommissions and layout reconfigurations to optimize space utilization and support future growth.
- Delivered customer handoff packages including detailed diagrams and as-built documentation (Visio/draw.io) upon service delivery.

**SKILLS**

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Cloud Platforms: AWS, Azure, GCP, IBM Cloud

Operating Systems: Debian, Ubuntu, Arch, macOS, Windows Server 2019/2022

Networking: Cisco, Arista, Juniper, Aruba

Automation & DevOps: Terraform, Puppet, Bash, Python, Docker, Kubernetes

Security: SOC 2, FedRAMP, ISO 27001

Monitoring: Datadog, Nagios, Grafana

Tools: Azure DevOps, ServiceNow, JIRA, Draw.io, Visio

**CERTIFICATIONS**

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Microsoft Certified: Azure Fundamentals (AZ-900) | Microsoft | 2024

HashiCorp Certified: Terraform Associate | HashiCorp | 2023

AWS Certified Cloud Practitioner (AWS-CCP) | AWS | 2021