Aryn M. Sparks

Network Engineering Leader & Multiplatform Developer

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Summary

- Network engineer with 6+ years designing and operating fiber, copper, and wireless architectures, pairing infrastructure with automation and observability tooling.
- Blends RF design, L2/L3 engineering, and network hardening with software skills in C, C++, Python, Java, and Kotlin for provisioning, health checks, and drift detection at scale.
- Adept at shipping customer-facing apps (Android, Windows, SwiftUI prototypes) and performance-focused WordPress sites that expose network-backed services securely.
- Ubiquiti Certified Networking Specialist with a track record of resilient builds across metro, rural, and industrial environments.

Core Competencies

- Data center & campus network design, fiber/fixed wireless, RF optimization, MPLS/VPN, and network hardening.
- Automation & tooling: Python, C/C++, Java, Kotlin, embedded systems, API integrations, infrastructure as code, CI/CD for config compliance.
- Operations: Tier 2/3 support, incident response, customer success, documentation/enablement, Windows & Linux administration.
- Mobile/web delivery: Android and Windows apps, Swift/SwiftUI prototypes, API-driven WordPress builds with performance and accessibility tuning.

Experience

Independent Consultant — Network & Software Contractor (2023–Present)

- Deliver turnkey wireless and fiber builds end-to-end; own assessment, design, activation, and stabilization for Texas clients.
- Develop automation toolchains (Python, C, Java, Kotlin) to streamline configuration and observability for hybrid environments.
- Design cross-platform apps (Android, Windows, Swift/SwiftUI) and launch WordPress sites that surface underlying services.
- Provide escalation support, executive reporting, and roadmap guidance for mixed infrastructure teams.

C&J; Cable — Network Engineer (Contract, Aug 2019–Present)

- Design, deploy, and secure large-scale fiber/wireless topologies delivering carrier-grade service quality.

- Engineer custom automation for Ubiquiti platforms to accelerate provisioning, monitoring, and remediation.

- Provide escalation coverage and project delivery across Texas after transitioning from full-time lead to contract partner.

- Drive reliability through RF optimization and cross-team coordination.

Office of Management and Enterprise Services — Customer Success Consultant & System Administrator (Oct 2022–Jul 2023)

- Supported statewide agencies with mission-critical services, bridging enterprise infrastructure and citizen-facing support.

- Delivered Tier 2 support, maintained SLAs, and administered Windows/Linux systems with hardened environments.

- Accelerated onboarding through knowledge sharing and documentation to reduce repeat incidents.

SparkNetUS — Founder & Consultant (Oct 2019–Nov 2022)

- Built resilient SMB/municipal networks with secure routing and observability dashboards.

- Developed embedded controllers, cloud automation, and service tooling for bespoke client needs.

- Guided clients on compliance, vendor selection, and lifecycle planning.

Earlier Roles — Systems Administrator & Operations (2009–2015)

- Managed multi-site Windows environments (200+ endpoints), imaging, and network racks for Account Control Technology.

- Led systems reliability and security for a 25-terminal Windows network at BOOMERS Gameroom.

- Balanced security, infrastructure, and frontline operations with a customer-first mindset.

Selected Projects

- **City-Wide Fixed Wireless Expansion:** Designed hybrid fiber backbones and wireless distribution for high-availability service across multiple counties (Ubiquiti, RF planning, QoS).

- **Automation Toolkit for Network Ops:** Python and C utilities for provisioning, health checks, and drift detection across thousands of access points; cut onboarding from days to hours.

- **Cross-Platform Field Toolkit:** Windows and Android app suite for RF surveys, asset checklists, and offline notes with fast sync; SwiftUI prototypes validated Apple UX.

- **Performance-First WordPress Sites:** SEO-friendly, accessible builds with hardened hosting and caching for non-technical teams.

Education & Certifications

- Ubiquiti Certified Networking Specialist; CompTIA A+; MCA in Computer Systems Networking & Telecommunications; AS in Computer Information Systems.

Tools & Platforms

- Network: Ubiquiti, RF planning, Layer 2/3, MPLS/VPN, QoS, network hardening.
- Software/Automation: Python, C/C++, Java, Kotlin, REST APIs, CI/CD, infrastructure as code, embedded systems.
- Operations: Windows/Linux admin, incident response, documentation/enablement, customer success.
- Platforms: Android, Windows apps, Swift/SwiftUI, WordPress/Elementor, performance and accessibility tuning.

Contact

- Email: aryn.sparks1987@gmail.com — ready for quick follow-up on networking and automation initiatives.