

Aysha Siddhikha Husaini Basha

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Summary of Qualifications

Wireless network architect and cybersecurity-focused engineer specializing in the design, implementation, and optimization of secure, high-density wireless systems for mission-critical environments. Demonstrated expertise in advancing next-generation wireless technologies including Wi-Fi 6E/7, AI-driven network automation, and zero-trust security frameworks to enhance resilience, reliability, and cybersecurity of large-scale networks.

Proposed Endeavor

To advance secure wireless architectures for critical infrastructure including transportation systems, educational institutions, healthcare facilities, and large public venues.

Key Contributions

- Designed wireless architectures supporting critical infrastructure environments including airports and school systems
- Enhanced network resilience and reliability in high-density environments
- Strengthened cybersecurity posture through enterprise-grade security frameworks

Professional Experience

Cisco Systems, Inc. | July 2025 – Present

Team Captain, Technical Consulting Engineering

- Lead wireless engineering teams in secure architecture design for enterprise environments
- Implement Wi-Fi 6/7 and AI-driven analytics to improve network performance and security

Cisco Systems, Inc. | March 2023 – July 2025

Technical Consulting Engineer

- Designed and supported enterprise wireless infrastructure solutions
- Implemented WPA3, 802.1X, and zero-trust security models

NetXperts LLC | April 2021 – Feb 2023

Wireless Engineer

- Designed wireless systems for airports, schools, and transportation systems
- Improved network performance and security while reducing costs

Education

- Master of Science in Electrical Engineering, San Jose State University
- Bachelor of Technology in Electronics and Communication Engineering, Periyar Maniammai University

Technical Expertise

Wireless Technologies: Wi-Fi 6/6E/7, 802.11 standards, RF optimization

Security: WPA3, 802.1X, Cisco ISE, Zero-Trust Architecture

Networking: LAN/WAN, BGP, OSPF, MPLS, VPN

Automation: Python, AWS, Cisco tools

Publications

- [Architecting High-Density Wireless Networks for Mission-Critical Airport Operations](#)
- [The Digital Bell: A Unified Network Architecture for the Modern K-12 School Environment](#)

Certifications

- Cisco Certified Network Professional
- Cisco Certified Network Associate
- Aruba Certified Mobility Professional

Honors and Awards

- TITAN Innovation Awards Gold Winner 2025
- Claro Awards Silver Winner 2025