

MATTHEW KING

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Systems Engineer | Networks, Deployment, and Operations for AI Infrastructure

SUMMARY

Systems engineer with 25 years of designing, deploying, and supporting networked systems where the network has to simply work: audio, video, and control traffic on enterprise IP networks with strict demands on bandwidth, latency, and traffic priority. Currently the final escalation tier for a managed services platform, administering 150+ IPsec VPN tunnels on FortiGate. Former Director of Integration Services responsible for deployment strategy, predeployment testing, and technology and cost comparisons. Built two enterprise AI demonstrations and a worked inference cluster sizing example as portfolio work, with no production AI deployments yet. Seeking an AI infrastructure engineer or architect role.

CORE SKILLS

Networking: VLAN, quality of service (QoS), and multicast design (IGMP snooping) for latency-sensitive traffic; Dante and Crestron DM NVX AV over IP networks; FortiGate (VM and 60F), FortiSwitch, FortiAP; IPsec VPN, SD-WAN, ECMP WAN failover

Deployment and operations: deployment strategy, predeployment configuration and testing, standard designs repeated across sites, escalation and root-cause troubleshooting, proactive monitoring, documentation

Automation and programming: PowerShell, n8n workflow automation, Crestron SIMPL# (C#), SIMPL+, and SIMPL Windows

AI infrastructure (portfolio and study): inference cluster sizing (GPU memory, throughput, power and cooling, network and storage design), retrieval-augmented generation, agent workflows with validation and human approval gates

Design and communication: AutoCAD, Visio, D-Tools System Integrator; cost comparisons and proposals for executives and nontechnical stakeholders

AI INFRASTRUCTURE PORTFOLIO matthewking.co/ai-infrastructure

AI Factory presentation. A ten-slide presentation on moving enterprise AI from pilot to production, with three live, simulated tools: an operations console, a model deployment wizard, and an illustrative return-on-investment model. Unofficial and not affiliated with Dell Technologies.

Agent Workflows console. An interactive console showing four enterprise AI agent patterns designed for n8n: support ticket triage, a retrieval-augmented knowledge agent, a multi-agent workflow with a gatekeeper, and a document-to-action pipeline, each with governance checks.

Inference cluster sizing example. A step-by-step sizing of a 32-GPU inference cluster for 5,000 employees, covering GPU memory, throughput, redundancy, power and cooling (35 to 45 kW), and network and storage design.

PROFESSIONAL EXPERIENCE

Cenero LLC

Jan 2020 to Present

Proactive Programmer | Remote

- Serve as the final escalation tier (Tier 4) for Constant Connect managed services, resolving the AV and network incidents that lower support tiers cannot.
- Manage and monitor 150+ IPsec VPN tunnels on a FortiGate VM firewall that carry remote access to client sites.
- Diagnose faults across Microsoft Teams Rooms, Cisco collaboration devices, Crestron control systems, and AV over IP distribution for enterprise clients.
- Develop deployment strategies for new managed services clients.

Kinly

Jul 2019 to Dec 2019

Control System Programmer

- Wrote and deployed Crestron control programs for large commercial clients.

Cenero LLC

Dec 2018 to Jul 2019

Proactive Programmer

- Planned deployments for projects requiring managed services.

Mission Electronics, Inc.

Jan 2016 to Nov 2018

Director of Integration Services | Lenexa, KS

- Set deployment strategy for integration projects requiring control programming and network services.
- Oversaw predeployment system configuration and program testing ahead of field installation.
- Evaluated emerging technologies and compared deployment labor costs to guide product selection.

Technology Integration Experts

Jun 2013 to Jan 2016

Owner, Designer, and Programmer

- Operated a Crestron Service Provider business that designed and programmed systems for Crestron dealers and end users.
- Joined the Crestron Service Provider Advisory Board in April 2015.

Arkansas Music Pavilion

May 2014 to Jan 2016

Contract Engineer, Samsung Video Walls | Bentonville, AR

- Designed the video distribution system between the production switcher and the video walls, and monitored signal integrity during live events.

Earlier Experience

2001 to 2013

- System engineer and contract programmer for Sensory Integration, Bedford Home Technologies, and Digital Entertainment Systems, engineering integrated AV and lighting control systems for commercial, government, and residential clients.

CERTIFICATIONS

AVIXA CTS-D and CTS; Crestron Certified Master Programmer (Silver) and DM NVX Network Certified; Audinate Dante Level 3; Q-SYS Level 2; Microsoft Teams Administrator Associate (MS-700). **In progress:** Fortinet NSE4 / FCP (target Q4 2026), Cisco CCNA.

EDUCATION AND HONORS

BA, Music | University of Arkansas, Fayetteville, AR · Eagle Scout