

CASON MILES

Physical Security Programmer

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SUMMARY

Physical security programmer who works across the full technology stack: enterprise physical security platforms, server and network infrastructure, cloud services, AI, and automation tooling. Programs, integrates, and services access control, video management, intrusion, and AI camera systems for Fortune 500, industrial, and higher-education clients, including global multi-site estates. Comfortable owning any system in the stack, from access controllers and recording servers to virtualization clusters, cloud infrastructure, and automation pipelines.

CORE SKILLS

Access & Intrusion: Lenel OnGuard & Elements · Genetec Synergis · Avigilon Unity Access & Alta · Bosch RPS
Video & AI: Milestone XProtect · Genetec Omnicast · Avigilon Unity Video · AI analytics · Hanwha & Arecont
Infrastructure: VMware vSphere/ESXi/vCenter · Proxmox · Docker · Windows Server & Active Directory · Linux · Veeam
Networking: Cisco Layer 3 switching & routing · VLANs · OPNsense (IDS/IPS) · Ubiquiti/UniFi · iSCSI storage networking
Automation & Dev: Python · PowerShell · n8n · Home Assistant · local LLM/AI integration · WordPress · Graylog/OpenSearch

EXPERIENCE

Security Technician (Physical Security Programmer) Aug 2025 – Present

ATS Integrated Solutions · Louisville, KY · enterprise physical security integrator

- Program, install, and service enterprise access control, video surveillance, and intrusion systems end to end, from service calls through full installs, for clients including Brown-Forman, Corning, University of Louisville, and Eaton.
- Lead access control and VMS platform conversions and migrations across vendors, on-premises and cloud: configuration and database mapping, licensing, hardware cutover, and client handoff on multi-building sites.
- Provide remote system management and programming for service-contract customers, act as the remote programming escalation for ATS and subcontracted field technicians, and keep system documentation current across the customer base.
- Deploy and program AI camera systems: AI-driven detection and alerting integrated into enterprise VMS platforms.
- Support global multi-site video infrastructure, including Brown-Forman’s estate with a Milestone recording server at every site worldwide, from Louisville to Tokyo and Milan.
- Provision and configure server infrastructure for large camera systems, including high-capacity video-recording storage servers, and work directly with client IT departments on system integration.
- Program intrusion arming schedules across client estates, and built a Python pipeline that turns Bosch panel exports into a manager-ready Excel workbook for a 22-site financial-services client; hours of reporting now refresh in minutes.
- Earned 11 industry certifications within the first year, spanning Genetec, Milestone, LenelS2, Avigilon, ESA, and NFPA.

Webmaster (Contract) Nov 2025 – Present

City of Hurstbourne Acres, KY · municipal government

- Sole administrator of the city government’s official website (hurstbourneacresky.gov): publish ordinances, resolutions, and the monthly city newsletter; manage hosting, domain, and DNS for a .gov property.

AV Installation Specialist Feb 2024 – Jun 2025

Dr. Stereo · Richmond, KY · residential & commercial AV integrator

- Designed and installed custom audio-visual, network, and smart-automation systems for residential and commercial clients (URC Total Control certified, Levels 1 & 2).
- Delivered a 25-display TV-over-IP entertainment system for the Millstone Social sports bar: Ubiquiti networking, distributed video and audio, and full iPad control.

TECHNICAL PROJECTS · HOME LAB

- Operate an enterprise-style home lab run like production: VMware vSphere/vCenter on Dell PowerEdge, a 30 TB iSCSI SAN, 40+ Docker services, OPNsense IDS/IPS, Veeam backups, and Graylog log ingestion with GeoIP threat mapping.
- Built an AI-powered surveillance system (Frigate object detection) integrated with whole-home automation (Home Assistant + URC), plus local LLM services (Ollama) and n8n automation pipelines.

CERTIFICATIONS

LenelS2 OnGuard (2026) · Genetec Synergis & Omnicast (2026) · NFPA 70E (2026)
Milestone MCIT & MCDE (2025) · LenelS2 Elements (2025) · ESA Certified Alarm Technician (2025)
Avigilon Unity Access, Unity Video & Alta (2025) · CompTIA Network+ (2025) · OSHA-10 (2025)

EDUCATION

Eastern Kentucky University · Richmond, KY May 2025

B.S., Cyber Systems Technology (Minor: Informatics) · GPA 3.59 · Dean’s List

A.A.S., New Technology (Computer Electronics focus)