

GAVIN BROWN

975 N Spring Garden Ave, Deland | 909-675-5698 | mail@gavinab.com

SUMMARY

Systems Engineer with over 5 years of full-time experience architecting, implementing, and maintaining high-availability IT infrastructure across hybrid Windows Server and Linux environments. Proven expertise in hardware virtualization (VMware vSphere, Hyper-V), Storage Area Network (SAN) provisioning, Disaster Recovery (DR) planning, and cloud integrations. Highly skilled in developing automation scripts to optimize batch processing and routine maintenance. Demonstrated ability to execute root cause analysis, author comprehensive technical documentation, and translate complex operational requirements into scalable infrastructure solutions.

TECHNICAL SKILLS

Virtualization & Cloud: VMware vSphere, ESXi, vCenter, Docker, vMotion, High Availability (HA) Clusters, Microsoft Hyper-V, Azure Active Directory (Entra ID)

Storage Infrastructure: NetApp SAN/NAS, VMware vSAN, Tiered Storage Architecture, LUN Provisioning, Disk Allocation

Operating Systems: Windows Server 2019/2022/2025, Linux (Various Distributions)

Automation & Scripting: PowerShell, Bash, Python, VBScript, Zabbix, LibreNMS

Hardware & Networking: Dell PowerEdge Servers, Cisco Switching Infrastructure, NVIDIA GRID Appliances, Wireless Access Point (AP) Deployment

Security Platforms: DC3, Situator, LenelS2, CyberKey, Alkatraz

WORK EXPERIENCE

Lead Systems Engineer

Birdi Systems, Inc. | April 2023 - Present

Key Project: Project IT Engineer, Daytona Beach Security System Upgrade & Operations Center Deployment

- Architected and implemented a fault-tolerant, 12-host VMware vSphere high-availability (HA) cluster spanning two redundant datacenters.
- Engineered and administered a multi-tiered storage solution utilizing NetApp SAN and VMware vSAN. Defined and allocated disk storage parameters to support high-I/O file and database systems.
- Administered high-availability Database Management Systems (DBMS), including Microsoft SQL Server, PostgreSQL, and MongoDB, optimizing storage I/O and query performance.
- Architected the Disaster Recovery (DR) plan for the deployment. Defined and implemented strict Recovery Time Objectives (RTO) and Recovery Point Objectives (RPO) utilizing VMware-level snapshots and application-level backup schedules.
- Deployed and configured Zabbix and LibreNMS to establish comprehensive infrastructure observability, defining performance baselines and alerting mechanisms for hardware and virtual resources.
- Executed the end-to-end migration and systematic decommissioning of legacy security infrastructure, transitioning and deprecating legacy hardware while cutting over services to the new architecture.
- Managed IT Service Management (ITSM) workflows, executing direct ticket resolution and monitoring strict Service Level Agreement (SLA) adherence for mission-critical systems.
- Deployed, configured, and maintained a complex multi-system environment encompassing Windows Server and Linux servers, executing both bare-metal OS installations and deploying specialized appliances (e.g., NVIDIA GRID).
- Developed and implemented PowerShell and VBScript automation for routine operational tasks, system updates, and configuration changes, reducing manual configuration errors and optimizing resource utilization.
- Performed deep-level root cause analysis of complex integration anomalies during production rollouts.
- Authored and maintained comprehensive technical documentation, including system topologies, configuration records, and standard operating procedures (SOPs).
- Served as the Applications Lead for advanced security platforms, managing the system lifecycle from initial server-side integration to patching live production environments.
- Directed technical discussions as the primary technical point of contact; trained operational staff at the user and sys-admin level.
- Managed edge hardware configurations, integrating perimeter intrusion detection systems into the head-end infrastructure and developing standardized testing protocols.
- Facilitated project management workflows, including subcontractor management, financial modeling, and project billing processes.

WORK EXPERIENCE CONT.

Additional Roles and Responsibilities

Birdi Systems, Inc. | April 2023 - Present

Hardware Prototyping & Technical Drafting

- Engineered prototype call points, executing component design utilizing Computer-Aided Design (CAD) software.
- Researched and evaluated hardware manufacturing processes to support the procurement of new system components.
- Developed concept of operations
- Interfaced directly with suppliers and fabricators
- Drafted, reviewed, and finalized technical infrastructure proposals and architectural presentations for executive stakeholder review.

Network & Systems Administrator

Santiago Retreat Center | Aug 2020 - Mar 2023

- Administered the complete lifecycle of on-premises and cloud-based IT infrastructure for the entire campus facility.
- Managed a site-wide Microsoft Hyper-V virtualization environment, optimizing host compute and memory allocation for virtual machines to maintain high performance.
- Executed the migration of the on-premises Active Directory environment to Azure Active Directory (Entra ID), establishing modernized identity and access management.
- Managed switching infrastructure and Wireless Access Point (AP) deployments, coordinating with contract staff and onsite personnel to maximize coverage and future growth.
- Administered local Active Directory infrastructure, managing laptop provisioning, user group policies, and Tier 1/2 troubleshooting.
- Managed web hosting environments and developed and rolled out new web designs.

Operations Specialist

Riter Aviation | Feb 2021 - Mar 2023

- Served as Second-in-Command (SIC), executing flight logistics and managing client scheduling.
- Coordinated technical avionics upgrades on aircraft, ensuring strict adherence to FAA regulatory compliance and documentation standards.
- Managed web hosting environment and rolled out new web designs
- Supported recruitment campaigns and administrative functions.

AV & Hardware Technician (Volunteer)

Our Lady of the Assumption | Jan 2020- Jun 2021

- Managed A/V infrastructure, executing hardware upgrades on local servers and control panels.
- Conducted OS maintenance and provisioned physical wiring for new hardware network drops.

EDUCATION

Electrical Engineering Technology

Daytona State College – In Progress

Jan 2024 – Present

TRAINING AND INDEPENDENT PROJECTS

- Situator PSIM Platform Training
- QVMS (DC3) Platform Training
- Lenel OG Platform Training

Independent Infrastructure Environment (Home Lab)

- Administer a TrueNAS storage environment utilizing a 4-disk RAID 10 configuration to optimize I/O throughput and fault tolerance.
- Manage a Docker containerization ecosystem hosting infrastructure applications, including Nextcloud, Pi-hole (DNS sinkhole), and Home Assistant.
- Deployed containerized Zabbix to monitor network telemetry and establish performance alerting for local resources.