

# Michael Calabrese

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## PROFESSIONAL EXPERIENCE

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**LS Technologies, Anchorage, AK**

**2023-Present**

*Systems Engineer*

### **Job responsibilities:**

- Support the Federal Aviation Administration by maintaining satellite communications between over 60 sites and remote locations.
- Primary systems administrator for hundreds of RHEL, Ubuntu, and Windows systems across 3 operational networks and 8 lab environments.
- Maintain security compliance and hardening across multiple operating systems in accordance with the latest CIS and STIG baselines by authoring scripts and utilizing Tenable Security Center and Nessus agents.
- Utilize Red Hat Satellite and Ansible Automation Platform to automate system configuration base-lining, software installs, operating system updates, and backups.
- Complete on-site deployment of new and replacement equipment including workstations, servers, switches, and routers at multiple locations across the country.
- Develop integrations for network management and control systems by creating python scripts and Splunk integrations.

### **Special Projects:**

- Replaced outdated LDAP:
  - Engineered an LDAP replacement for an existing solution that was beyond support and hard to manage or troubleshoot. Integrated multiple apps including Splunk, IP Control, NetBackup, and a custom network management app that required significant schema modifications.
- IP Control Upgrade:
  - Designed and engineered an upgrade to the IP Address Management and DNS solution to reduce management overhead and complexity. Utilizing IP Control software to manage IPs, DNS records, and DNS server configurations in the same interface.
- Kickstart Update Project:
  - Simplified and improved the automated provisioning solution to produce consistent functional systems in very few steps. Spent months reworking and re-organizing the structure to ensure everything was functional and modular for use in all network environments.

**General Dynamics IT, JBER, AK**

**2022-2023**

*DCGS-A Senior Field Service Representative*

**Job Responsibilities:**

- Assisted with software installation, configuration, patching, and maintenance of both RHEL and Windows systems.
- Configured NetApp Storage and Cisco switches along with VMware ESXi hosts.
- Responsible for backup and disaster recovery of Linux and Windows systems.
- Regularly performed software, hardware, and network troubleshooting and problem identification and resolution.
- Helped to coordinate between different offices to facilitate troubleshooting efforts.

**United States Air Force, Langley AFB, VA**

**2020-2022**

*Directory Services Supervisor*

**Job Responsibilities:**

- Section supervisor to 30 technicians. Managed workflow and communication between work center and outside agencies.
- Oversaw operations and maintenance of over 730 Domain Controllers in support of USAF and USSF.
- Managed, supervised, and performed planning and implementation of projects across multiple networks.
- Created multiple PowerShell tools to increase efficiency of daily tasks.

**Special Projects:**

- Admin Scripts ([GitHub](#)):
  - Authored a GUI application based on Windows Forms that leveraged the Windows RSAT tools to allow enterprise and base level admins to create and manage users, groups, computers, and service accounts
- SCAP/STIG Project ([GitHub](#)):
  - Automated security compliance checks on over 12,000 assets by authoring multiple PowerShell scripts consisting of over 17,000 lines. The script performed around 80-90% of checks for systems and automatically populated checklist files which saved hundreds of man hours every quarter.
- Account Compliance Project ([GitHub](#)):
  - Engineered automated compliance enforcement mechanism for 22 domains across the world. Disabled and/or deleted user and computer accounts that didn't meet specific requirements. This tool is still used today in the Air Force.
- Logon Script Update Project:

- Was handpicked as a PowerShell expert to run this project. Provided templates and met with over 80 people from multiple bases around the world to update vbscript logon scripts to increase maintainability and reduce logon time.

**United States Air Force, Langley AFB, VA**

**2018-2020**

*Directory Services Technician*

**Job Responsibilities:**

- Provided Directory Services by maintaining Active Directory and DNS for over 865k personnel.
- Managed secure authentication utilizing PKI and Kerberos technologies.
- Standardized user privileges and system settings using automated deployment tools such as Group Policy Management Console (GPMC) and Group Policy Administrator (GPA).
- Processed, documented, and coordinated resolution of trouble calls from lower echelons.
- Planned and implemented configuration changes based on customer requests.
- Evaluated and implemented DISA SCAP and STIG requirements across assets in multiple domains.

**United States Air Force, Misawa AB, Japan**

**2016-2018**

*Network Operations Technician*

**Job Responsibilities:**

- Implemented server and workstation security fixes, operating system patches, and antivirus software updates.
- Performed system-wide backups and data recovery.
- Audited DISA hardening by performing SCAP and STIGs against base assets and performing Nessus Scans.
- Automated operating system deployment and patching solutions via Windows Deployment Server and PowerShell scripts.
- Create, modify, and delete Active Directory users, computers, and groups.

**Special Projects:**

- Windows 10 Upgrade Project ([GitHub](#)):
  - Engineered script to integrate account data and query systems to facilitate upgrade from Windows 7 to Windows 10 on supported systems. Awarded **Best in Pacific Air Forces**.

EDUCATION

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**Western Governors University, Salt Lake City, UT**

**2024**

*Bachelor of Science, Cloud Computing*

**Community College of the Air Force, Montgomery, AL**

**2018**

*Associate of Applied Science, Information Systems Technology*

CERTIFICATES

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<b>CompTIA Security + CE</b>	<b>Nov 2016</b>
<b>CompTIA Network + CE</b>	<b>Nov 2022</b>

AWARDS

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**688 CW - Information Dominance Outstanding Cyber Ops NCO of the Year** **2020**

- This award recognizes NCOs for excellence in their respective Air Force Specialties.

**690 COG - Senior Technician of the Year** **2020**

- Recognized by the 690 Cyber Operations Group for excellence as a senior technician.

SKILLS & EXTRACURRICULAR

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**Scripting and Coding:** PowerShell, Bash, Python

**Virtualization/Container Technologies:** VMware, XCP-NG, Proxmox, Linux KVM, Docker, Podman

**Monitoring Tools:** Splunk

**Backup Tools:** NetBackup, Veeam

**Automation Tools:** Red Hat Satellite, Ansible Automation Platform

**Storage Solutions:** NetApp, TrueNAS

**Routing/Firewalls:** pfSense, Cisco, Palo Alto

**Avid Homelabber**

- Proxmox cluster with mini PCs.
- Docker Swarm for H/A applications.
- Kubernetes cluster with FluxCD.
- Storage and backups on TrueNAS SCALE.
- Unifi routers, switches, and APs.
- Mix of RHEL, Ubuntu, and Windows operating systems on VMs and hardware.
- Home automation with Home Assistant and python scripts.