


Ash Marlow

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Professional Summary

Cyber Security Engineer with a BSc in Physics and hands-on expertise in Tanium deployments, scripting, and systems administration. Passionate about building scalable automation tools, optimizing workflows, and bridging hardware/software gaps. Combines strong problem-solving skills from computational physics with practical experience in embedded systems, Proxmox homelabs, and 3D printing. Proven ability to automate workflows, secure enterprise environments, and troubleshoot complex technical issues. Passionate about continuous learning and contributing to innovative IT/security projects.

Technical Skills

Programming, Scripting & DevOps:

- Python – Automation, web apps, data analysis, Computational Physics.
- Bash/PowerShell – System automation, cron jobs, log parsing, system management.
- C/C++ – Embedded development (STM32, Arduino).
- Git/SVN – Version control for collaborative projects.

Networking & Infrastructure:

- Proxmox – VM/LXC management for testing environments.
- Docker/Docker Compose – Containerized deployments.
- Windows Server - Active Directory, Group Policy, DNS.
- VLAN & Subnet Management - Segmented home, work and air gapped networks.
- Firewall & Routing - Configured pfSense/OPNsense rules for inter-VLAN traffic control.

Hardware & Embedded Systems:

- Arduino/ESP32 – I2C, GPIO, sensor projects.
- Raspberry Pi - Testing platform for tools and services.
- 3D Printing – CAD design for home/technical projects.
- STM32 - Microcontroller programming and debugging.

Tools: Tanium, Confluence, Jira, CoreLight, SVN, Obsidian, Picoscope, STM32CubeIDE, pfSense, OPNsense, Wireguard, Tailscale.

Professional Experience

PointWire, Cyber Security Consultant

July 2024 – Present

- Deployed Tanium across commercial environments, improving endpoint visibility and compliance.
- Led internal projects, ensuring on-time delivery by tracking tasks and assigning team priorities.
- Resolved high-priority service desk tickets, reducing average resolution time by 30%.

Panasonic, Embedded Software Engineer

April 2023 – June 2024

- Designed Simulink models for microwave oven firmware.
- Developed Python scripts for hardware endurance tests, cutting manual effort by 50%.
- Tracked tasks using Jira and version-controlled code via Tortoise SVN.

IVC Evidensia, Finance Assistant

August 2022 – April 2023

- Audited 100+ customer accounts weekly, ensuring 99% data accuracy in Excel/CSV files.
- Collaborated via MS Teams to streamline financial reporting processes.

British Army, Vehicle Mechanic

October 2011 – April 2021

- Repaired/maintained a fleet of 50+ MAN trucks and Land Rovers, ensuring operational readiness.
- Trained 15+ junior mechanics in diagnostic protocols and safety standards.

Netheravon Parachute Centre, Coach and Instructor

January 2015 – August 2018

- Trained 500+ students in safety protocols, maintaining a 0% incident rate.
- Coordinated with videographers to document jumps for client portfolios.

Education & Qualifications

- **BSc Physics** | University of Bristol (2022)
- **Tanium Certifications** - Tanium Certified Operator/Administrator/Cloud Specialist
- **Simulink Training** – Embedded C code generation
- **NVQ Level 3** – Equipment Maintenance Engineering (British Army)
- **UK Security Clearance (SC)** – Valid until August 2029.

Projects & Interests

- **Homelab**: Proxmox cluster running VMs/LXCs for security testing.
- **Obsidian**: Knowledge base for documenting homelab and workflows.
- **Raspberry Pi & ESP32**: Custom IoT projects.
- **3D Printing**: Designed/printed components for home automation.
- **Retro Game Emulation**: Linux based retro game systems.