

Chase Dumphord

DevOps Engineer • Platform & Cloud Infrastructure Engineer • Industrial Systems

Oxford, MS | 662-214-2231 | chasedumphord@gmail.com | [linkedin.com/in/chase-dumphord](https://www.linkedin.com/in/chase-dumphord) | github.com/ced4568 | chasedumphord.com

// SUMMARY

Professional Summary

DevOps and Cloud Infrastructure Engineer with 10+ years of experience across industrial automation, manufacturing data systems, field service engineering, and infrastructure operations. Currently part of GE Aerospace's Digital Team building data pipelines, dashboards, and digital inspection systems using MTConnect and OPS Vision. Hands-on infrastructure engineer running an 18-node production environment consisting of a 6-node Proxmox VE cluster and a 12-node K3s Kubernetes cluster with TrueNAS, full observability stack, and VLAN-segmented networking. Rare combination of industrial domain expertise and modern cloud-native engineering capability. I don't simulate environments. I run them.

// STACK

Core Skills & Technologies

Containers	Kubernetes (K3s), Docker, Helm, multi-role node pools
Infrastructure	Proxmox VE, Linux, TrueNAS, VPS, Cloudflare Tunnels, self-hosted services
Observability	Prometheus, Grafana, Uptime Kuma, alerting pipelines, custom NOC dashboard
Networking	UniFi, VLAN design, Nginx, Traefik, reverse proxy, DNS, Cloudflare, TCP/IP
IaC & CI/CD	Terraform, Bash, Python, GitHub Actions, Docker Compose, manifest-driven config
Industrial	MTConnect, OPS Vision, PLC (Allen-Bradley, Siemens), HMI/SCADA, Cognex/Keyence vision systems
Development	Python, Bash, JavaScript, HTML/CSS, Git
AI & Auto	n8n, OpenRouter, LLM-assisted diagnostics, workflow automation, Telegram bots

// EXPERIENCE

Professional Experience

DevOps & Digital Systems Engineer GE Aerospace — Digital Team Part of the Digital Team designing and deploying data-driven systems for aerospace manufacturing operations where pipeline uptime and data accuracy directly impact production throughput. - Designed and implemented MTConnect agent and adapter pipelines extracting real-time telemetry from CNC and inspection equipment into production monitoring systems, with end-to-end ownership from machine signal to dashboard layer - Built and maintained operational dashboards and reporting tools using OPS Vision, giving engineering and operations leadership live visibility into equipment state, production flow, and anomalies - Automated manual data collection processes, reducing human touchpoints in the pipeline and improving accuracy of production metrics - Integrated industrial equipment data across OT and IT layers in a zero-downtime manufacturing environment, applying the same reliability patterns used in modern observability stacks	2025 – Present
Founder & Infrastructure Engineer Synthos Systems Founded a systems engineering company building AI-assisted operational infrastructure. All systems are designed, deployed, and validated in a live production environment before client handoff.	2026 – Present

- Built and operate a 12-node K3s Kubernetes cluster with dedicated control plane, ingress, data, and monitoring node pools, GitOps-driven with ingress controllers, secrets management, and Prometheus monitoring
- Designed and deployed complete infrastructure stacks including container orchestration, alerting pipelines, n8n automation workflows, and AI-assisted ops tooling, all running in production
- Architected AI-assisted operations automation using n8n, Telegram bots, and OpenRouter integrated with live Prometheus alerting for real-time operational awareness

Field Service Engineer — Level III

2021 – 2025

Integrated Defense & Security Solutions (IDSS / SureScan)

Level III Field Service Engineer for industrial inspection and security systems in aerospace and defense environments. Highest field designation, reflecting advanced troubleshooting and independent system ownership under SLA-critical conditions.

- Owned end-to-end troubleshooting and remediation of complex industrial inspection systems under direct production pressure including root cause analysis, corrective repair, and full system restoration
- Managed installation, configuration, and performance validation of HMI and PLC application software across multiple client sites simultaneously
- Created and maintained full technical documentation including field service logs, schematics, drawings, and configuration records

Owner & Electronics Systems Engineer

2020 – 2026

CellTech ER

Founded and operated a technical services business specializing in advanced electronics repair and microsoldering, owning all technical workflows, operations, toolchain, and team management.

- Designed and operated the full service workflow end to end including intake, diagnosis, repair, QA, and documentation, applying structured systems thinking to a high-variability technical environment
- Performed component-level microsoldering and board-level diagnostics requiring precise troubleshooting under hardware constraints with no margin for error

Robotics Technician

2020 – 2021

Starship Technologies

Maintained operational health and reliability of a global autonomous delivery robot fleet.

- Monitored and maintained global fleet health, diagnosing and resolving hardware and software issues across distributed autonomous systems with direct service-level consequences
- Led a team of 4 to develop support and troubleshooting manuals that directly reduced incident resolution time for recurring failure patterns

Maintenance Technician II

2019 – 2020

Advanced Technology Services (ATS)

Industrial maintenance technician in a high-availability factory automation environment.

- Performed mid-to-expert level break-fix and preventive maintenance on PLC 5000, Staubli and Epson robots, servo drives, conveyor systems, and hydraulic systems
- Applied PDM and PM methodologies including thermal imaging, ultrasonic testing, and formal root cause analysis to prevent production failures

Lead Electrician

2017 – 2019

University of Mississippi — Athletics

- Maintained and repaired electrical systems across all athletics facilities, managing outage response and event coverage with zero tolerance for failure
- Owned power continuity for all athletic events in a high-stakes operational environment

Maintenance Technician

2015 – 2017

Voith Industrial Services — Toyota TMMK

- Rebuilt and maintained AGV carrier systems to Toyota production standards with direct consequence for active production lines
 - Performed preventive maintenance and daily on-call troubleshooting on automated material-handling systems
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// PROJECTS

Featured Projects

Ced's NOC — Live Infrastructure Observability Dashboard

Active

noc.chasedumphord.com • github.com/ced4568/ceds-homelab

- Built a real-time network operations center providing live visibility into an 18-node homelab with 27 services monitored across Proxmox VE hypervisors, K3s cluster nodes, networking, storage, and edge systems
- JSON-driven data feed displays system status, latency, service health, and alert triage with auto-refreshing UI and severity-based alert panels refreshing every 30 seconds
- Fully documented and publicly accessible at noc.chasedumphord.com, demonstrating production-grade operational monitoring in a live environment

Ced's HomeLab — Enterprise Infrastructure Lab

Active

github.com/ced4568/ceds-homelab • chasedumphord.com

- 18-node production infrastructure consisting of a 6-node Proxmox VE hypervisor cluster and a 12-node K3s cluster with dedicated control plane, ingress, data, and monitoring node pools on Raspberry Pi hardware
- Full observability stack running Prometheus, Grafana, and Uptime Kuma with live dashboards, alerting pipelines, and service health tracking across all nodes
- VLAN-segmented network via UniFi with secure external access via Cloudflare Tunnels and Nginx reverse proxy, with architecture documentation, runbooks, and SOPs maintained as standard practice

APRS iGate System — RF Edge System

Active

github.com/ced4568/ceds-aprs-igate

- Dual-node RF-to-internet gateway using Raspberry Pi and Direwolf APRS TNC, with uplink verified live on aprs.fi
- Built-in network resilience with HomeLab WiFi plus mobile hotspot failover and mobile build with ETH-USB-HUB-BOX expansion for field operations

// EDUCATION

Education & Certifications

- Bluegrass Community & Technical College — Associate's Degree
- KubeCraft — DevOps & Kubernetes Infrastructure Training | 2025
- IPC Certified Specialist | Serial # RRS-20111961405
- Certified Master Repair Technician — CellBotics Performance Training Center
- Licensed Amateur Radio Operator — KJ5JCO

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