

Chase Dumphord

DevOps Engineer | Platform & Cloud Infrastructure Engineer | Industrial Systems

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// 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 with 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.

// STACK

Core Skills & Technologies

Containers	Kubernetes (K3s), Docker, Helm, multi-role node pools
Infrastructure	Proxmox VE, Linux, TrueNAS, VPS, Cloudflare Tunnels, self-hosted services
Cloud Platforms	AWS (EC2, VPC, RDS, S3, IAM, Route53), Hetzner VPS, Cloudflare
Observability	Prometheus, Grafana, Uptime Kuma, alerting pipelines, custom NOC dashboard
Networking	UniFi, VLAN design, Nginx Proxy Manager, Traefik, reverse proxy, DNS, Cloudflare, TCP/IP
IaC & Automation	Terraform, Bash, Python, n8n, GitHub Actions, Docker Compose
GitOps & CI/CD	GitHub Actions, Git-based deployment workflows, manifest-driven configuration
Industrial	MTConnect, OPS Vision, PLC (Allen-Bradley, Siemens), HMI/SCADA, Cognex/Keyence vision systems, servo drives
Development	Python, Bash, JavaScript, HTML/CSS, Git
AI & Auto	n8n, OpenRouter, LLM-assisted diagnostics, workflow automation, Telegram bots

// 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 home lab infrastructure 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 demonstrates production-grade operational monitoring in a live environment

Ced's Home Lab - Enterprise Infrastructure Lab

Active

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

- 18-node production infrastructure: 6-node Proxmox VE hypervisor cluster (BigWorld, Biggie, Snoop, TooShort, Tupac, DrDre) and a 12-node K3s Kubernetes cluster with dedicated control plane, ingress, data, and monitoring node pools
- 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 architecture documentation, runbooks, and SOPs maintained as standard practice

Owner & Electronics Systems Engineer

2020 - 2026

CellTech ER

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

- Designed and operated the full-service workflow end to end, intake, diagnosis, repair, QA, and documentation, applying structured systems thinking to a high variability technical environment
- Performed component-level micro soldering 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, hardware diagnostics, software troubleshooting, infrastructure upgrades, and documentation.

- 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, documentation 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 responsible for keeping complex automated production systems running.

- Performed mid-to-expert level break-fix and preventive maintenance on factory automation systems including 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

- Diagnosed and repaired electrical malfunctions across campus infrastructure, maintaining uptime for facilities, labs, and event venues including all athletic events
- Owned power continuity for high-visibility athletic events with zero tolerance for failure 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, precision mechanical and electrical work with direct consequence for active production lines
- Performed daily on-call maintenance in a high-availability production environment with direct production line uptime accountability

// EDUCATION

Education & Certifications

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