

Chase Dumphord

Digital Systems Engineer • Infrastructure & Industrial Automation • GE Aerospace

Oxford, MS | 662-214-2231 | chasedumphord@gmail.com | github.com/ced4568 | linkedin.com/in/toochase-dumphord | chasedumphord.com

// SUMMARY

Professional Summary

Digital Systems Engineer with 10+ years of experience across industrial automation, manufacturing systems, and data-driven infrastructure. Currently operating within the GE Aerospace Digital Team, specializing in machine data integration, dashboard development, and system-level visibility across production environments. Hands-on infrastructure engineer running Proxmox, K3s, TrueNAS, and APRS RF edge systems — bridging physical equipment with modern digital platforms. Increasingly integrating AI tooling for system documentation, automated diagnostics, and workflow acceleration.

// STACK

Core Skills & Technologies

Digital & Data	Dashboard Development, MTConnect, Machine Data Collection, OPS Vision & Inspection, Process Optimization
Infrastructure	Proxmox VE, Linux, TrueNAS, K3s (Kubernetes), Docker, Nginx Proxy Manager, Cloudflare Tunnels
Monitoring	Grafana, Prometheus, Uptime Kuma, Custom NOC Dashboard (Ced's NOC)
Networking	VLAN Design, Reverse Proxy, DNS, Cloudflare, UniFi, Firewall Config
Industrial & Controls	PLC (Allen-Bradley, Siemens), HMI/SCADA, Robotics, Vision Systems (Cognex, Keyence)
Development	Python, Bash, JavaScript, HTML/CSS, Git, Linux
AI & Automation	Claude (Anthropic), LLM-assisted Documentation, AI-driven Diagnostics, Prompt Engineering
Cybersecurity	Network Security, System Hardening, Monitoring & Detection Concepts

// EXPERIENCE

Professional Experience

Digital Systems Analyst — Hybrid (Digital Team & Facility Engineering) GE Aerospace - Design and support data-driven systems for manufacturing visibility, reporting, and operational decision-making - Develop dashboards and reporting workflows for process performance, inspection outputs, and equipment data - Integrate MTConnect and OPS vision/inspection systems to improve traceability and process effectiveness - Support robotics and automation initiatives connecting machine data, inspection results, and operational workflows - Partner across digital and facility engineering teams to improve system reliability, scalability, and usability	2025 – Present
Field Service Technician II — Industrial Systems Support Integrated Defense Security and Solutions - Installation, corrective repair, and preventive maintenance for fielded industrial and security equipment - Supported HMI and PLC application deployment, troubleshooting, and updates in customer environments - Maintained electrical schematics, technical drawings, and full service documentation	2021 – 2025

Support & Deployment Engineer

2020 – 2021

Starship Technologies

- Maintained health and readiness of a global fleet of autonomous delivery robots
- Diagnosed and resolved hardware, software, and infrastructure issues from test team reports
- Created troubleshooting manuals and documentation systems for support operations

Maintenance Technician II

2019 – 2020

Advanced Technology Services

- Advanced break-fix and PM on PLCs, conveyors, servo systems, robots, and vision systems
- Applied predictive maintenance: thermal imaging, ultrasonic testing, root cause analysis

Head Electrician

2017 – 2019

Ole Miss Athletic Department

- Maintained and repaired electrical equipment across all athletics facilities
- Managed outage response and supervised part-time technical staff

Robotics Technician

2015 – 2017

Voith Industrial Maintenance

- Maintained, rebuilt, and validated automated guided vehicles to production standards
- Preventive maintenance and troubleshooting on automated material-handling systems

// 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 homelab infrastructure
- JSON-driven data feed displays system status, latency, service health, and alert triage across all nodes
- Auto-refreshing UI with severity-based alert panel; designed to mirror production NOC workflows
- Foundation for full Grafana + Prometheus observability stack integration (in progress)

Ced's HomeLab — Enterprise Infrastructure Lab

Active

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

- 6-node Proxmox cluster and 12-node K3s Kubernetes cluster on Raspberry Pi
- Full monitoring stack: Grafana, Prometheus, Uptime Kuma
- VLAN-segmented network via UniFi; secure external access via Cloudflare Tunnels + Nginx

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
- Tuned audio chain for optimal packet decode; APRS-IS uplink verified on aprs.fi
- HomeLab WiFi + mobile hotspot failover; mobile build with ETH-USB-HUB-BOX expansion

// EDUCATION

Education & Certifications

- Bluegrass Community & Technical College — Associate's Degree
- CompTIA Security+ (In Progress) • CompTIA Network+ (Planned)
- IPC Certified Specialist • Certified Master Repair Technician