CRAIG'S IT

Public Infrastructure & Technical Projects Portfolio

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Overview

Hands-on experience administering a mixed Windows and Linux environment, managing multi-location networking and surveillance, maintaining centralized storage, and deploying self-hosted services.

Windows Server & IIS

Windows Server 2025 hosts multiple IIS websites and ASP.NET Core applications, including customer-facing services and branded email web interfaces. Administration includes service configuration, application deployment, troubleshooting, and backups.

Email Infrastructure

A self-hosted email platform uses MailEnable on Windows Server with a Linux-based SMTP relay, WireGuard connectivity, and SPF, DKIM, and DMARC authentication. Testing verified successful email authentication and encrypted delivery.

Linux, Docker & DNS

Ubuntu Server hosts containerized applications and inventory services. Pi-hole and Unbound provide DNS filtering and recursive resolution, with a separate DNS installation at another property.

Multi-Location UniFi Networking

Experience with UniFi gateways, PoE switches, Wi-Fi access points, multi-site connectivity, and a point-to-point wireless bridge. The environment includes multiple independently administered locations and secure remote connectivity.

Surveillance & Monitoring

Approximately 25 cameras are managed across UniFi Protect installations. Agent DVR provides a consolidated viewing environment. Projects include camera provisioning, remote viewing, and troubleshooting.

Storage & Data Management

A four-bay Synology NAS provides centralized file storage, media storage, scan-to-folder workflows, and RAID-protected capacity. Experience includes replacing a failed disk and completing a storage rebuild.

Workstations & Virtualization

Hardware upgrades, Windows 11 systems, macOS Tahoe dual-boot experiments using OpenCore, and virtualization experience with VMware and Hyper-V.

Current Development Roadmap

In progress or planned: invoice payments and customer portal improvements, integrated IT ticketing, a role-based administrator dashboard, centralized identity and SSO, secure password management, and infrastructure monitoring. These are not represented as completed deployments.

Public Documentation Policy

This public edition intentionally excludes internal IP addresses, precise network diagrams, account names, credentials, security configurations, and family-specific equipment assignments. Screenshots will be added only after privacy review.