

CLAYTON OHMES

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EDUCATION

Missouri S&T

BS: Electrical Engineering | Minor: Automation Engineering

Rolla, MO

Aug 2016 - Dec 2020

EXPERIENCE

The Clorox Company

Senior Controls & OT Network Engineer

Atlanta, GA

Mar 2023 - Present

- Contributed to OT cybersecurity recovery, restoring application servers and connectivity across sites. Helped design and implement new network infrastructure, including firewalls and VPNs, in response to the incident.
- Automated repetitive processes and resolved networking issues using Python scripts.
- Created SCADA dashboards and developed PLC code to support production analytics and machine control systems.
- Acted as the solution architect for a MES application's changeover sequence, integrating with PLC systems and enhancing the productivity of operators while reducing their learning curve

Electrical, Instrumentation, and Controls Engineer

July 2022 - Mar 2023

- Lead Electrical and Controls Engineer for various manufacturing projects around the business. Most notable responsibility is a \$150M+ greenfield facility utilizing a new process to manufacture cat litter.
- Standardized Active Directory and security structures across multiple plants, ensuring consistency and security in automation software management.
- Built the framework for a comprehensive data historian and analytics platform, which was widely adopted across all departments. Trained site employees on its use, enabling better decision-making and operational insights.

Control System Specialist

Atlanta, GA

Jan 2021 - July 2022

- Led the controls design and commissioning of a \$46 million wipes production line during the peak of the pandemic, ensuring project completion under challenging conditions.
- Implemented a Windows server with automated program change management software, developing processes to track and control changes made by technicians.
- Managed a team of 16 maintenance technicians across 4 shifts, coordinating downtime planning and troubleshooting efforts to ensure seamless 24/7 operations.

SKILLS

Programming Languages: Python, Powershell, C++, XML

APIs and Configurations: XML, JSON, HTTP, REST

Networking: Cisco CLI, IPSec, NAT, VPNs, VLAN Configuration

PROJECTS

Machine Utilization Tracking System XML, Python, PLCs, SCADA

Deployed UDTs (User Defined Types) in PLCs across 7 sites to standardize data collection for a root cause analysis engine. Wrote XML configurations using Python to integrate the data into the analysis system.

Automated Batch Receipt Storage Python, SCADA, NSSM

<https://github.com/claytonohmes/Copy-Directory>

Added functionality to the SCADA to automate printing batch receipts to PDF under a standard naming convention. Developed a Windows service with NSSM and Python to automate copying them to the plant's file server, ensuring automatic operation on system reboot.

CERTIFICATES

Automate the Boring Stuff with Python

Udemy
Nov 2023

Python Zero to Hero

Udemy
Sep 2024

API and Web Service

Udemy
Sep 2024