Clayton **Ohmes**

✉ claytonohmes@gmail.com | ☎ 5734271033 | ⚲ Atlanta, GA | ⚲ https://github.com/claytonohmes

Education

Missouri S&T	*Rolla, MO*
BS: in Electrical Engineering	Minor: Automation Engineering	*Aug 2016 – Dec 2020*

Experience

The Clorox Company — *Atlanta, GA*

SENIOR MES TECHNICAL LEAD — *Oct 2024 – Present*
- Led UI/UX design for a modular, web-based MES system, ensuring seamless Go-Live deployment across 19 manufacturing sites.
- Owned all UI, UX, and utilization portions, collaborating with multiple business teams for smooth system integration and data flow.
- Developed JavaScript for dynamic web page logic and API-based data exchange (JSON/XML) with SQL Server and custom APIs.
- Automated the utilization import process with Python scripts, saving 760 man hours in manual data entry and reducing errors.
- Developed and optimized all Python scripts independently, ensuring high performance and data accuracy.
- Wrote custom API to show and adjust inventory levels in the database.

SENIOR CONTROLS & OT NETWORK ENGINEER — *Mar 2023 – Oct 2024*
- Contributed to OT cybersecurity recovery, restoring application servers and connectivity across sites. As a result, consulted on the design and implementation of a new network infrastructure, including firewalls and remote access, 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 desired control system functionality.

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.
- Built the framework for a comprehensive data historian and analytics platform, which was widely adopted across multiple sites. Documented this approach with a standard which included asset templates and VB scripts for KPI calculations.

CONTROL SYSTEM SPECIALIST — *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.
- Managed the programming and change management of the plant control system and a team of 16 maintenance technicians

Skills

Programming and APIs:: Python, JavaScript, Powershell, HTML, SQL, HTTP, XML, JSON
Network Architecture: VLANs, Azure, NAT, VPNs, Firewalls, Switches
DevOps: Azure Devops, GitFlow, Windows Server, Docker, Pipelines, Scripting

Projects

Project Elevate — *XML, Python, SQL, JavaScript, HTTP*
LEADING THE DESIGN, IMPLEMENTATION, AND SYSTEM MAINTENANCE OF OUR DEV, QA, AND PROD MES SERVERS ACROSS ALL US SITES.

Automated Batch Reciept Storage — *Python, SCADA, NSSM*
DEVELOPED A WINDOWS SERVICE WITH NSSM AND PYTHON TO AUTOMATE COPYING QUALITY DATA TO THE PLANT'S FILE SERVER, ENSURING AUTOMATIC OPERATION ON SYSTEM REBOOT.
https://github.com/claytonohmes/Copy-Directory

Machine Utilization Tracking System — *XML, Python, PLC*
DESIGNED, STANDARDIZED, AND DEPLOYED UDTs (USER DEFINED TYPES) IN ALL PLCs ACROSS THE COMPANY FOR UNIFORM DATA STRUCTURE.

LazyD8 (Personal Project) — *SwiftUI, HTTP*
APP FOR IOS I MADE IN MY FREETIME TO GIVE USERS SUGGESTIONS OF THINGS TO DO.
https://github.com/claytonohmes/LazyD8