

Clayton Ohmes

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Education

Missouri S&T

BS: IN ELECTRICAL ENGINEERING | MINOR: AUTOMATION ENGINEERING

Rolla, MO

Aug 2016 – Dec 2020

Experience

The Clorox Company

SENIOR MES TECHNICAL LEAD

Atlanta, GA

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 Receipt 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>

