

Tyler Ellis

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Education

Liberty University

Bachelor of Science: Computer Science & Cybersecurity

Lynchburg, VA

May 2025

Experience

Junior MES Engineer | Software & Automation Developer

Whirlpool Corporation

August 2021 - Present

Clyde, OH

- Develop and maintain Manufacturing Execution Systems (MES) applications.
- Automate MES workflows with Python scripting and API-driven integrations.
- Build real-time dashboards in Ignition Perspective for production and downtime tracking.
- Optimize MES data pipelines and integrate with enterprise systems (OPC UA, MQTT, SQL).
- Document system architecture and improve troubleshooting procedures.

Assembly Team Leader

Whirlpool Corporation

November 2016 - August 2021

Clyde, OH

- Led and developed teams ranging from 8 to 40 employees in a high-paced manufacturing environment.
- Implemented process improvements using Kaizen & WCM, reducing downtime.
- Analyzed production metrics to drive data-driven decisions.

Projects

Network Deployment | Grace Community Church

Network Infrastructure | IT Operations

April 2025 - July 2025

- Collaborated with church staff to deploy a complete Unifi network suite across a newly acquired facility.
- Configured VLANs for network segmentation across the admin, tech, and staff networks to enhance security
- Set up remote access VPNs to support secure off-site management and inter-campus connectivity
- **Result:** Deployed by opening weekend with an estimated 50% reduction in required configuration time for new devices, positioning the church for long-term AV and IT scalability

Ignition-Based MES Monitoring Hub | Whirlpool Corporation

Ignition | Python | SQL | IT Security

January 2023 - Present

- Designed and deployed a document management interface within Ignition, enabling secure file upload, search, and retrieval without requiring a local download in most cases.
- Architected a dynamic tab management system to offload session logic to the Ignition gateway
- Developed an object-based network health monitor to proactively flag equipment outages
- **Result:** Reduced average downtime response time and total outage time by almost 40%.

Technical Skills

Languages: Python | C/C++ | SQL | HTML/CSS | Javascript

Frameworks: Ignition Perspective, Ignition Vision

Developer Tools: Ignition Designer, Visual Studio, VS Code, PyCharm, Wireshark, VMWare, Git, Docker

Libraries: PyAutoGUI, Pandas, OPC UA SDK, REST APIs