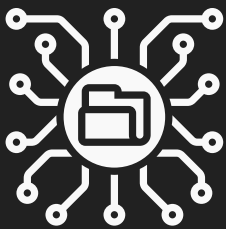




Cutting Costs, Boosting Efficiency: A Paperless OEE System Built for Growth



DSI implemented a customizable OEE system using Ignition software for a lawn equipment manufacturer, optimizing frame and weld cell performance with real-time data access. This **paperless solution** reduced waste, saved costs, and provided a scalable platform for future AI-driven expansions, enhancing efficiency and supporting ongoing digital transformation.

Technology Used

Inductive Automation's Ignition Software:

- Vision Module
- SQL Bridge Module
- Allen-Bradley Driver Suite
- Reporting Module
- Mobile Module



CLIENT CHALLENGE

As a part of our Paperless Factory initiatives for manufacturers, we assisted a long-time client (Lawn Equipment Manufacturer) with a series of digital transformation projects. In this case, our client required a cutting-edge **OEE (Overall Equipment Effectiveness) data collection system**. Our client expressed that their current Data Collection System was insufficient for their product needs, and were in the market to implement an automated system that would allow for **Real-Time Data Access** & reduce waste, and save on production costs.

Our focus was on optimizing the performance of 4 frame cells and 3 weld cells, laying the groundwork for future AI-driven expansions aligned with our client's long-term goals.



OUR SOLUTION

We leveraged the flexibility and capability of **Inductive Automation's Ignition Software** to deliver a highly customizable solution to our client that includes Real-Time Visibility into their operations. Ignition, known for its modular structure, enabled us to seamlessly integrate critical features that drive efficiency and promote paperless data management.

For this project, we implemented the following **Ignition modules**:

- **Vision Module:** Offering an intuitive user interface for real-time monitoring of machine performance.
- **SQL Bridge Module:** Connecting production data to SQL databases for easy storage and retrieval.
- **Allen-Bradley Driver Suite:** Ensuring smooth communication between the PLCs and the Ignition platform.
- **Reporting Module:** Automating OEE data reporting for more informed decision-making.
- **Mobile Module:** Allowing remote access to production data from mobile devices, facilitating anytime, anywhere monitoring.

After the installation of Ignition software, we continued to provide support to our client which including Ignition upgrades to ensure smooth operations. We also made OEE additions and modifications on a need-be-basis. Ongoing support is vital to maintaining optimal production efficiency.



THE PAPERLESS ADVANTAGE

With the new installation of the **OEE data collection system**, our client now has a robust, scalable solution that enables **real-time performance tracking** and paves the way for future growth—all while embracing our **Paperless Factory Model**.

Through automation and continuous monitoring, they're now equipped to drive smarter, faster, and more efficient production.

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“Our customized OEE solution provided our client with real-time performance insights and seamless automation, transforming their operations into a scalable, paperless system that's ready for future AI-driven expansions.”

- DSI Innovations

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