



Steelcase Retrofits Legacy Machinery with IIoT Capabilities for **Data-Driven Business Decisions**

With Arduino's Opta, existing machines gain Industry-4.0 capabilities to monitor their status, notify critical events, and connect to cloud-based dashboards.

INDUSTRY

Manufacturing

ARDUINO PRO PRODUCT

Arduino Opta

USE CASE

Machine Monitoring

APPLICATION STAGE

Production



CASE STUDY: Steelcase

Steelcase is a global furniture design firm and manufacturer known for their innovative approach to design. Steven Jones, a Technical Process Consultant at Steelcase sought a solution for a legacy machine in their Grand Rapids, MI wood plant. Their destacker machine - which takes boards from a stack and places them on a conveyor belt - occasionally underperformed. To understand the impact of the machine's performance, Steven looked to the Arduino Pro Opta to introduce Industrial Internet of Things (IIoT) capabilities to this legacy device.

Using Opta to monitor the machine's electrical states, the details of the machine's status are sent to the cloud for real-time monitoring and reporting. This new functionality enables cloud-based dashboards for the Steelcase team to understand and analyze how the machine's performance impacts downstream processes.

Looking ahead, Steelcase aims to harness the power of data for AI-powered manufacturing, transitioning towards Industry 4.0. By leveraging data-driven insights, they anticipate increased use of AI to revolutionize decision-making processes and enhance efficiency and productivity in their factories.

Steelcase built their solution with Arduino Pro to:



Leverage real-time data for business decisions



Implement a cost-effective to improve Overall Equipment Effectiveness



Retrofit existing equipment with IIoT capabilities

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