



2022: The year AI came of age

As the end of the year draws near, let's look back at some of our milestones and reflect on what we have been able to achieve together with the support of our customers, partners, and well-wishers. 2022 was a big year for Falconry – starting with our biggest announcement of the year – [we rolled out](#) a brand new automated, no-setup anomaly detection application for the plant floor user, *[Insight](#)* which began winning hearts and minds in our community of early adopters even before its launch. Within no time, users are integrating data-driven insights into their daily workflows and achieving a precise understanding of their operations with this new application. Next, we took [Insight to the high seas](#) by leveraging Oracle's Edge Infrastructure and NVIDIA's Accelerated Computing. With Insight at the Edge, Falconry is able to process data locally, without the need to bring historical data out of the ship and achieve the highest levels of security on the US Navy's most sophisticated vessels.

To make the above milestone possible, two key Falconry innovations from the start of the year were the prime enablers. The first was our groundbreaking work with NVIDIA to springboard time series AI to peta-scale using their TensorRT technology. Being selected to be a part of NVIDIA's AI accelerated startup program we were able to work with the latest GPU hardware and demonstrate scaling in the range of trillions of high-speed data points. This breakthrough in AI scaling makes possible information dominance in defense and high-speed AI at plant-scale for large industrial verticals such as metals manufacturing.

The second enabler relates to the strides we made in our time series data management approach. Our unique approach to manage time series data from the megahertz to the daily events, has produced a new industry-low cost of ingesting data and brings AJAX-like capabilities to large-scale collections of factory time series data. We were even awarded a [patent for it](#) this year. And speaking of patents, [another patent](#) for Falconry's unique method to compute an explainable event horizon estimate granted this year, will have tremendous applications across industries going forward.

Among our various partnerships this year, one that stands out, especially from the sustainability perspective is our selection by the U.S. Department of Energy to partner with AM/NS Calvert and ArcelorMittal Global R&D towards the common goal of improving efficiency in industrial operations, starting with welding of steel coils in finishing mills.

To wrap up the year in review, below you will find some of our most read content pieces throughout the year. I encourage you to read them as they reflect the zeitgeist of the year that has been. For now, it's time for festivities with friends and family. See you next year, we have great things in store. Stay tuned.

ORIGINAL CONTENT

Vision 2022: What’s next for smart manufacturing?

At the start of the year, we gazed into our crystal ball and made some radical predictions about model-free AI, line-scale adoption, and how smart factory platforms will shape smart manufacturing in 2022. How many came true? As they say, predicting the future isn't difficult when you forge it yourself.

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ORIGINAL CONTENT

AI implementation challenges in steel manufacturing

With steel plants producing terabytes of data every month, automated AI analysis is the only way to make sense of it. Yet implementing AI remains challenging. In this blog post, we discuss some common AI implementation challenges and how steel manufacturers have overcome them using Falconry time series AI.

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ORIGINAL CONTENT

What makes Falconry's core technology unique?

From cutting-edge breakthroughs to the philosophy that drives development – Falconry CTO, Dan Kearns takes us behind the scenes into the tech R&D at Falconry.

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ORIGINAL CONTENT

Deep dive into Falconry Insight

Find out how Insight, the plant-scale anomaly detection application we launched this year provides a cost-effective and sustainable way to achieve smart manufacturing benefits.

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Briefs

The uphill battle of transforming 100-year-old steel mills. A cutting-edge U.S. Steel mill in Arkansas is using AI tools in production, but implementing that tech know-how in century-old plants hasn't been easy. Each mill typically has to build and train its own models based on the unique environment. Scalability of solutions is the key.
[\[The Wall Street Journal\]](#)

The consequences of the manufacturing labor shortage. The consequences of the manufacturing labor shortage. Between the pandemic, the bad rap manufacturing jobs get, and baby boomers retiring, a perfect storm of problems has led to the labor shortage. Is there a way out? Have a look at this insightful article on automation and workforce modernization for the answer.
[\[Grey Matter Robotics\]](#)

Smart condition monitoring as a path to organic agility. Smart condition monitoring as a path to organic agility. Operations teams today are struggling to keep up with maintenance, quality, or performance surprises. Smart condition monitoring can overcome such problems. Find out how.
[\[Automation.com\]](#)

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