

AI Copilot for Automotive Manufacturing



➤ Automated and scalable time series AI for greater operational reliability

Address disruptions **before** they impact operations



Timely, understandable alerts

Discover and understand real-time operational issues in all plant systems to improve OEE



Centralized data monitoring

Better decision making through centralized plant scale analytics



Effortless activation & scale

Operationalize and expand with minimal resources, time, and effort

➤ Use Cases across Automotive Manufacturing



Welding

Problem:

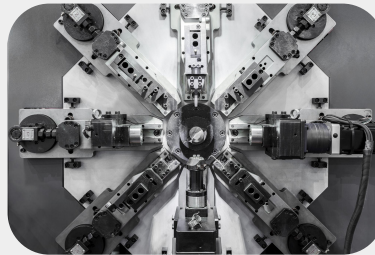
Quality of machine welds varies over time resulting in expensive manual rework

Solution:

Discover patterns that precede quality variation in robotic welds and provide smart alerts preceding defective welds

Benefit:

96% reduction in downstream rework and material losses without increasing inspection costs



Wire Bending

Undetected quality deviations at point of production lead to downstream production waste

Identify quality deviations by comparing observed patterns with known good patterns to eliminate defects during production

Real-time quality monitoring results in improved production yield



Robotic System

Unscheduled downtime of robotic equipment leads to over \$10,000 per minute of downtime

Discover patterns that precede downtime and provide early warning to schedule maintenance and prevent any unscheduled downtime

Throughput improvement and cost benefits due to reduced incidence of equipment downtime

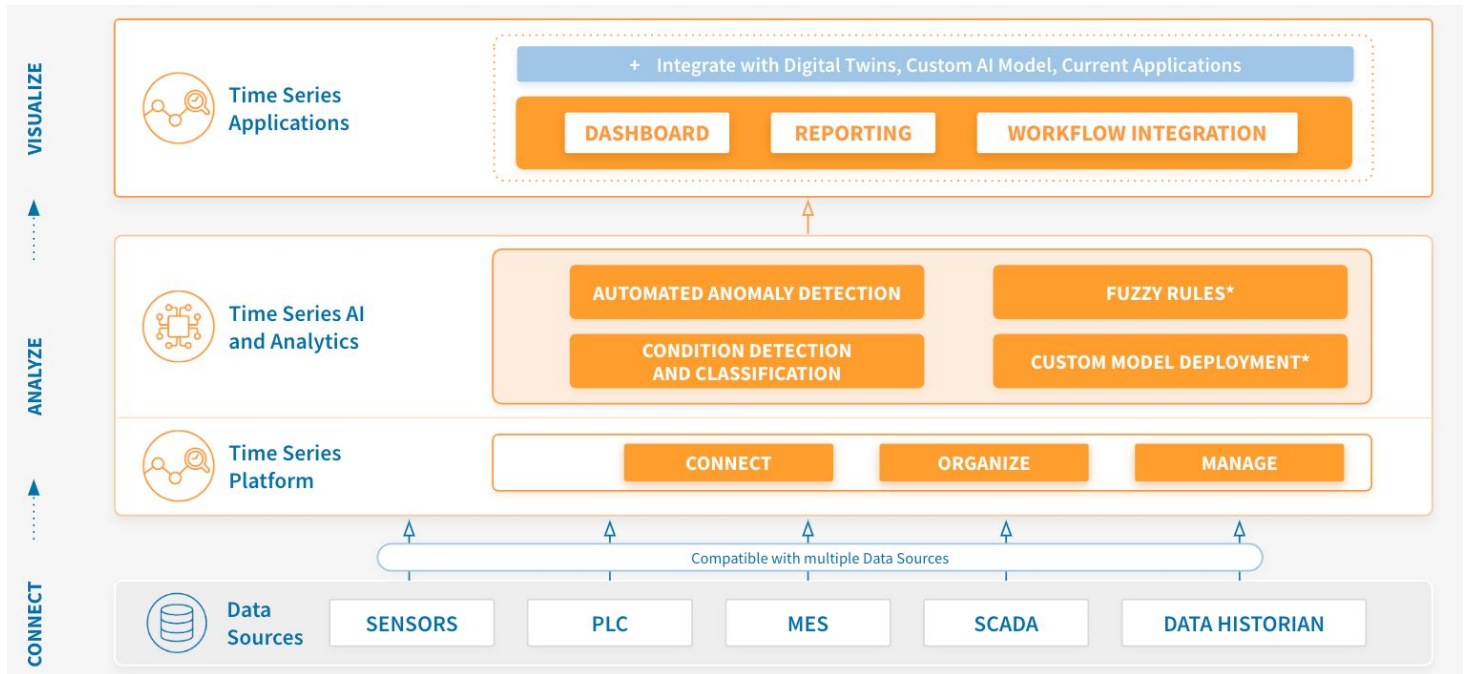


"We analyzed 62,000 welds in about two and a half minutes. Our engineers were able to look at the different classifications that Falkonry identified and identify which welds were superior, which were good, which were normal and which were poor."

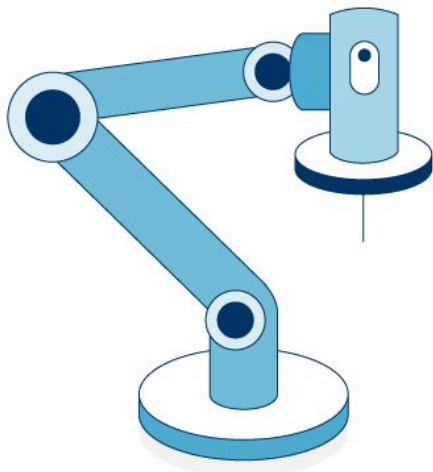
CIO & SVP

Toyota Material Handling, North America

➤ Falconry Solution Framework



➤ Case study: Quality defect reduction using time series AI



Automotive Welding Operations

\$14,000 per machine per day rework cost

- Falconry's AI Suite helps limit process failures and uphold strong product standards
- Falconry is able to identify bad welds before they turn into quality and warranty issues

94%

accuracy in
classifying
welds

96%

reduction in
welds sent for
rework

10-20 mins

to discover
patterns



Tell us your challenge, we're here to help: **Let's Talk** 