Arch Systems Wins 2026 Mexico Technology Award for AI-Powered Quality Defect Investigation Agent

Palo Alto, Calif., November 2026 – Arch Systems, a leader in manufacturing data and AI solutions, has been honored with a 2026 Mexico Technology Award in the AI Technology category for its Quality Defect Investigation Agent. The award was presented during a ceremony held before SMTA Guadalajara 2026 on Wednesday, October 7, 2026, in Guadalajara, Jalisco, Mexico.

The Arch Quality Defect Investigation Agent transforms how electronics manufacturers identify, investigate, and prevent production defects by bringing expert-level reasoning directly into the manufacturing environment. Unlike traditional analytics tools that surface data trends or correlations, the AI-powered solution autonomously performs structured root cause investigations to identify the underlying factors driving failures.



In most manufacturing environments, defects are detected during inspection or final test, while the true causes often originate earlier in the process through complex interactions among materials, equipment, and process conditions. The Quality Defect Investigation Agent addresses this challenge by reconstructing complete product lineage, connecting machine, material, and quality data, and evaluating relationships between process variables and production outcomes.

By applying advanced AI reasoning, the system isolates validated root causes and provides clear, actionable recommendations that engineers can use to improve processes and prevent recurring issues. This enables manufacturers to move beyond reactive defect management and establish a proactive approach to continuous quality improvement.

The Quality Defect Investigation Agent helps manufacturers scale expert-level problem solving across products, production lines, and facilities, reducing reliance on limited engineering resources while improving yield, reducing rework, and accelerating corrective action. By embedding intelligent decision-making into daily operations, Arch Systems is helping manufacturers create smarter, more efficient, and more resilient production environments.

“Manufacturers have more data than ever before, but turning that data into actionable decisions still requires significant engineering expertise and time,” said Andrew Scheuermann, CEO and Co-Founder of Arch Systems. “The Quality Defect Investigation Agent changes that model by bringing autonomous, expert-level reasoning into the factory. By identifying true root causes and providing actionable recommendations, we are helping manufacturers move from reacting to defects to preventing them before they impact production. We are honored that the Mexico Technology Awards recognized this innovation and its potential to transform modern manufacturing.”

The Mexico Technology Awards recognize the most recent technological innovations in Mexico's manufacturing landscape, spotlighting achievements by OEM manufacturing equipment and materials suppliers over the past year. For more information about the awards, please visit www.mexicoems.com/mta-awards.

About Arch Systems

Arch Systems transforms factory intelligence with AI-driven solutions that help manufacturers optimize operations, reduce downtime, and maximize efficiency. Purpose-built for factories by manufacturing and data experts, Arch AI acts as an expert copilot—reading dashboards, synthesizing data, and delivering real-time, prescriptive guidance to operators, engineers, and executives without costly infrastructure overhauls. By leveraging AI to unlock insights from existing factory systems, Arch enables manufacturers to scale expertise, improve critical KPIs, and drive measurable impact on the shop floor. Learn more at archsys.io.

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