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Shaping the Future of SMT: ViTrox, ASMPT, and Hitronix Champion AI Automation and Closed-Loop Process Control in Brazil



PENANG, MALAYSIA - July 2026 - ViTrox, which aims to be the World's Most Trusted Technology Company in providing innovative, advanced, and cost-effective automated Machine Vision Inspection Solutions for the semiconductor and electronics packaging industries, successfully concluded the **Seminar Campinas 2026** on June 18, 2026. Hosted at the scenic Rooftop

Alphaville in Brazil in close collaboration with ASMPT and Hitronix, the full-day event drew an exclusive crowd of industry professionals eager to pioneer the future of Surface Mount Technology (SMT) process optimisation.

This event successfully brought together **76 participants** representing **37 leading electronics manufacturing companies** across Brazil. The high turnout and vibrant energy underscored a rapidly growing demand within the Brazilian manufacturing sector for smarter, more connected production solutions and advanced inspection capabilities.

ASMPT initiated the session by sharing critical strategies on manufacturing flow improvement, demonstrating how seamless equipment integration and stricter process control can drastically minimise production inefficiencies.

Following this, ViTrox's representative, **South America Sales and Support Manager, Mr Guilherme Pereira**, introduced the audience to an end-to-end AI-Driven Inspection Ecosystem, sparking immense interest with its promise of a "Process Self-healing Line". He highlighted the game-changing AI capabilities embedded across ViTrox's premier solutions lineup:

- [Smart 3D Solder Paste Inspection \(SPI\)](#): Features high-precision 3D measurement capabilities to catch critical printing defects—such as insufficient or misaligned paste—at the earliest possible stage.
- [Smart 3D Automated Optical Inspection \(AOI\)](#): Showcases groundbreaking AI Smart Programming compliant with IPC standards that yields up to 90% programming time savings, AI Recipe Quality Control (QC) utilising Generative AI for algorithm validation, and AI Auto Buy-off through AI-powered Verification Tool Solutions (AI VVTS) to achieve a ~70% labor reduction.
- [Smart 3D Automated X-ray Inspection \(AXI\)](#): Combines AI Intelligent Tuning and advanced AI Inspection to intelligently classify defects within complicated, multi-shaded backgrounds, vastly minimising false calls.
- [Smart Robotic Optical System \(ARV\)](#): Offers a versatile 2-in-1 system configured with a 6-axis collaborative robot (Cobot) arm for flexible, multi-angle conformal coating and final assembly inspection.

These smart manufacturing solutions are linked to ViTrox's Manufacturing Intelligence Solutions Towards Industry 5.0 – V-ONE. Through powerful data modules like ONE View—which provides upstream cross-referencing of real-time images at buy-off stations—and Process Insight, which triggers auto-ticketing and comprehensive root-cause analysis when defect conditions are met, the ecosystem guarantees seamless data connectivity and true closed-loop control. Ultimately, this comprehensive integration enables manufacturers to reduce human error, accurately detect defects early, optimise process performance, and maintain consistent product quality across every production stage.

In addition, the seminar featured a dedicated session on **ViTrox's VisionXpert XC Series - Smart Camera solution** by **Mr Patrick Franco**, who shared valuable insights into how intelligent vision technologies can help manufacturers improve operational efficiency, quality control, and process visibility, delivering an impactful presentation.

The event achieved strong attendee engagement, generating positive feedback on the quality of the presentations and overall organisation alongside overwhelming interest in the showcased technologies. This led to several potential opportunities across ViTrox's Smart 3D AXI, AOI, SPI, and Smart Camera solutions, reflecting the growing demand for AI-driven inspection and smart manufacturing technologies in Brazil.

This seminar further strengthens ViTrox's expanding footprint in South America, proving that the Brazilian manufacturing market is ready to embrace the next generation of AI-driven, autonomous inspection technology.

Continued Engagement: Visit ViTrox in Hutto, Texas

ViTrox's global support network is committed to helping manufacturers eliminate production bottlenecks and implement AI-driven solutions locally. To explore the advanced inspection technologies highlighted during the seminar or to kickstart your digital transformation, ViTrox warmly invites industry partners to contact Mr Guilherme directly at guilherme.pereira@vitrox.com for tailored consultations and support.

To schedule an appointment or submit a business enquiry, please contact us at www.vitrox.com

About ViTrox Technologies

ViTrox is committed to being the World's Most Trusted Technology Company and the leading solutions provider through the most innovative, advanced, and cost-effective machine vision solution of excellent quality to its customers by integrating ViTrox's technologies, people, and strategic alliances.

ViTrox offers a full spectrum of solutions, ranging from [Middle & Back-end Semiconductor Inspection Solutions](#), [SMT PCB Assembly Vision Inspection Solutions](#), [Integrated Industrial Embedded Solutions](#), and [Manufacturing Intelligence Solutions Towards 5.0](#). ViTrox is headquartered in Penang, Malaysia, with regional offices in Asia, Germany, the United States, and is supported by a global network of sales and support sites.

For more information about ViTrox's products and services, please visit www.vitrox.com.