AllyGrow eVision - Computer vision for inspection, high repeatability, & accuracy without human intervention

Diverse chassis configurations presented a higher likelihood of missing brackets during assembly, leading to potential assembly stoppages and compromised product quality.

The automated inspection capabilities led to faster and more accurate identification of issues, minimizing assembly stoppages and ensuring seamless operations. Potential defects were addressed proactively, reducing the need for rework and avoiding costly recalls

We offer insightful consulting and cutting-edge tech like BIM, Plant Automation, and Digital Twin for seamless transformation. MES enables coordination, while IoT-based maintenance and QC improve reliability.

Our approach fosters agility, productivity, and a competitive edge.

Overview

Client: Tier -1 automotive supplier

Location: India

Challenge: The client faced challenges due to diverse chassis variants with varying welded brackets, increasing the risk of missing brackets and potential assembly stoppages. They seek an automated visual inspection solution customized to their specific assembly needs.

Solution:

- Step 1: Designed AI-based vision system with robotic camera mount to inspect child parts on frames.

- Step 2: Conducted rigorous testing to ensure accurate detection and PLC feedback.

- Step 3: Deployed system, integrated with existing processes, and established feedback loop for continuous improvement. Resulted in improved productivity and quality control.

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