

ABOUT RELIMETRICS

Relimetrics is part of the Industry 4.0 movement, helping companies to digitally transform. Relimetrics is a platform solution applicable to numerous industries, including automotive, manufacturing, electronics and construction. Our software uses computer vision and machine learning to automate inspections and perform predictive maintenance. This increases productivity, cuts costs and helps companies to innovate at a more rapid rate.

AUTOMATED QA FOR MODULAR AND ASSEMBLED PARTS

OUR CUSTOMER

Our customer is a global Tier I automotive supplier of modular and assembled automotive parts.

To keep OEM customers satisfied and prevent warranty claims, our customer is focusing on digitizing and improving product quality assurance.

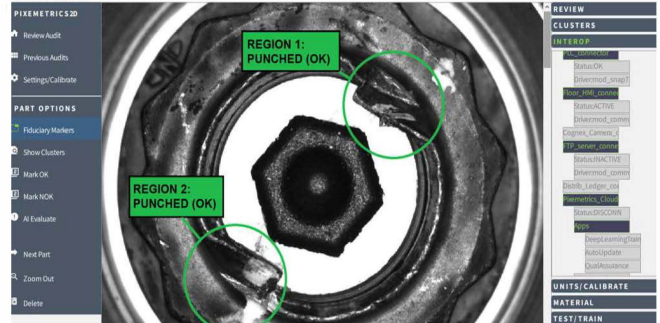


Figure shows a snapshot of Relimetrics' user interface identifying correctly (green) assembled areas of a mechanical part.

CHALLENGE

Customer has already invested in embedded computer vision systems to digitize quality audit of drive shaft modules in its production line.

The return on investment has not been realized due to the deployed systems failing to deliver the required probability of detection (POD) and generating high percentage of false alarms.

As the module directly impacts vehicle safety, false detection is a significant liability.

SOLUTION

Relimetrics augmented the existing camera hardware previously deployed at the customer, boosting the POD with its machine learning approach at the edge.

This solution enhanced and unlocked much more value from the previous investment.

It also fully integrated with the factory Manufacturing Execution System (MES), allowing our customer to use a single interface while using Relimetrics.

IMPACT



< 0.5 Seconds
Near Real-Time Inspection



> 99.9%
Increased existing PoD from 97% to >99.9%



Full Traceability
Improved handling of quality issues