99% Accuracy in Quality Control with AI

Industry: Healthcare

Client: Electronics Manufacturer, Southeast Asia

The Challenge

- ✓ Manual inspection errors
- ✓ Missed micro-defects
- ✓ Delayed visual QA
- ✓ Limited product traceability

Our Approach

- ✓ Industrial vision cameras
- ✓ RFID-based batch tracking
- ✓ Deep learning for defect detection
- ✓ Integration with QMS & MES

Key Solutions

- ✓ AI Vision Inspection System
- ✓ RFID Traceability
- ✓ Real-Time Defect Heatmaps
- ✓ QMS Integration

Tech Stack

NVIDIA | OpenCV | TensorFlow | python | SAP

Impact Summary

Metric	Before	After
Inspection Accuracy	~85% (Manual)	99.1% (AI Vision)
QA Manpower	12 Inspectors	4 Inspectors
Defective Dispatch	1.8%	0.3%
Visibility	Partial	End-to-End

Results at a Glance

60%	80%	2x	100x
manpower reduction	fewer defects	faster inspection	traceability

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