



A New Look on the Assembly Line

An ambitious new carmaker changes everything with help from the Skylight Platform and Glass

One leading new automobile manufacturer is doing more than building cars; it's changing design and production from the wheels up. This company wants to build smarter and find defects earlier in manufacturing, all while exceeding federal safety standards. They've evaluated Upskill as a key partner in their process.

Situation

Building cars takes a lot of communication. In that past, that was a painstaking manual process: when a defect was detected, a line inspector used a touchscreen to select the defect type and location and wrote notes on a paper defect log that followed the car. These defects were repaired in an area called end of the assembly line (EOL), where a repair technician would look at all notes, perform diagnostics, go back for more details and then schedule repairs. Sometimes these repairs were completed by multiple people over multiple shifts... with many more notes needed to understand what had been completed and which repairs remained.

“ If your technician can talk to the engineer, then talk to the inspector, then talk to the paint center, they become one team even if they're miles apart.

– Director of production

Solution

This innovative auto company has changed all that. They tested the Skylight software platform from Upskill and paired it with Glass Enterprise Edition to streamline the defect repair process.

On this factory floor, workers wearing smart glasses simply see all issues related to the car in their field of view. They take before-and-after photos of defects, use reference videos to guide their repairs, make notes and record video instructions

Industry

Automotive

Wearable Solution

- Skylight
- Glass Enterprise Edition

Use Case

- Assembly and repair
- Remote expert
- Safety and inspection

Benefits

- Better defect tracking
- Improved communication
- Reduced work error rate

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– all with their hands free to do the work. They can call engineers, the weld center or any other division to gather the knowledge they need.

When the car comes off the line, a technician scans the QR code with the smart glasses and sees any remaining tasks in real time. As each task is completed, data and video sync automatically to the company's manufacturing execution system (MES), confirming repairs and sharing the internal tribal knowledge.



End-user point of view using Skylight on smart glasses.

“ It's people, not robots, that make us successful. Skylight and Google Glass bring us together to do more.
– Lead manufacturing technician

Results

Working together, Skylight and Glass:

- Helped technicians capture actual expert repair knowledge to share with new employees instead of bulky repair manuals.
- Offered smarter defect reporting and repair tracking for each car.
- Presented real-time mentoring and support from subject matter experts.
- Measured how long it takes to troubleshoot and fix an issue.
- Tracked how many repairs each technician completes per shift and per week.

Skylight also sends reports to managers and engineers, who can see all issues and find patterns as they emerge... and correct them for the future.

For a company that wants to change how cars are made, Skylight and Glass are making a real difference.

“ Now our technicians can move from car to car without having to stop and type data. We'll all be on the same page and moving quicker.
– Director of production