clear object

Detected Vehicles: 4

Height (in): 69.0935

Risk: Very Low

Clear Height
Preventing Bridge Collisions with Vision AI

The National Highway Traffic Safety Administration reports over 15,000 bridge collisions per year on average, causing injury, disrupting traffic, and costing municipalities millions of dollars to repair. ClearObject has partnered with Google to create simple, effective solutions to keep our critical infrastructure safe.

Big Trucks = Big Problems

Clear Height combines cameras, artificial intelligence, and a simple alert system to stop bridge collisions before they happen.

Here's how it works:

See it in action!

Cameras

ClearObject uses existing traffic cameras miles before bridges of interest. Additional cameras can be installed, if needed.

Calibration

AI algorithms track existing objects of known size and distance from the camera to calculate the size of moving vehicles

Emergency Alerts

Nearby State Troopers are notified an oversize vehicle is approaching an area of concen

Intelligence Dashboards

Improve safety over time by gaining insights from alert frequency, severity, time of day, vehicle speeds, and response times.

Vision AI: built for Continuous Process Improvement (CPI)

Vision AI ensures continuous improvement by reapplying updated insights to future workflows, creating a feedback loop that evolves over time. As processes are refined, data collection becomes more efficient, and the system learns to anticipate and prevent issues before they arise.

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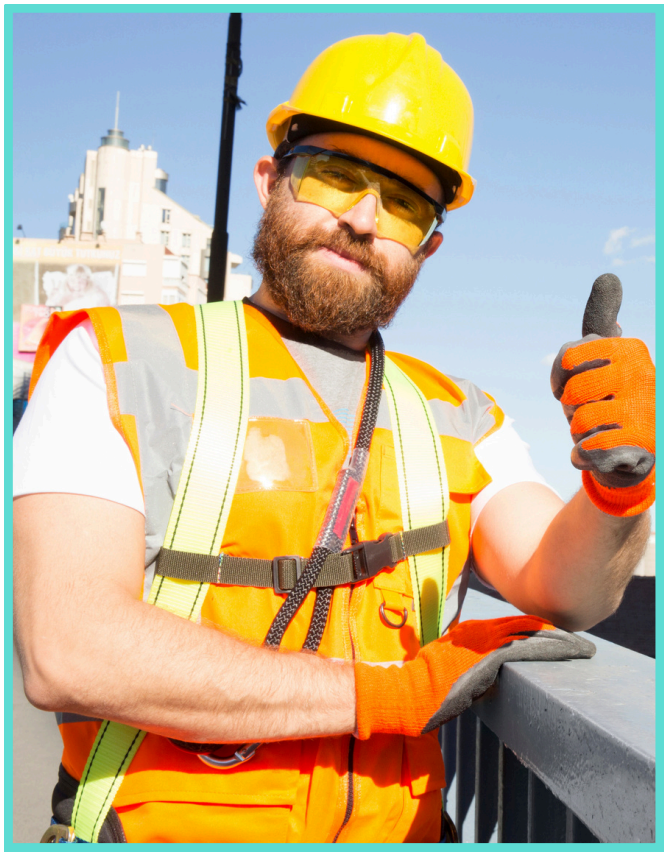
CLEAROBJECT
A GOOGLE CLOUD PREMIER PARTNER FOR AI SOLTUIONS

Google Cloud Partner

ClearObject is a trusted Google Cloud Partner in SLED, with deployment expertise in cities, towns, roadways, and more. We work with you to keep workers safe, avoid infrastructure project delays, and create better communities for all.

Vision AI Mini-Case Study:
New York State Thruway decreases bridge collisions with Clear Height



The Problem

New York takes pride in their history and architecture, but unfortunately many of their older bridges take truckers by surprise.

From lower than expected bridges, to flatbeds hauling oversized construction equipment, New York has historically seen multiple bridge strikes per day, each costing taxpayers money and putting public safety at risk.

Previous efforts like increased signage or even lasers with warning sirens proved ineffective.

The Solution

ClearObject and Google Cloud partnered with NYS Thruway to design a simple, effective solution to improve safety with Vision AI.

ClearVision AI analyzes video feeds from existing traffic cameras to identify potentially hazardous vehicles.

Once identified, State Troopers are notified to alert the vehicle of concern before they strike a bridge. New York State Thruway is also beginning to explore other alert systems.

The Results

"To be able to do it (avoid bridge collisions) for tens of thousands of dollars is a no-brainer. To save millions of dollars by spending 10 grand, it's a home run."

Josh Klemm
CIO of NYSTA

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