

We are experts from the world of self-driving cars, and we previously developed state-of-the-art Al systems. We are now on a mission to bring the power of computer vision to Industry 4.0.



LUMINAR

Carnegie Mellon University



**Eric Danziger** 

Co-founder & CEO



LUMINAR





**Prateek Sachdeva** 

Co-founder & COO









# THE PROBLEM

The inability to monitor assembly processes causes millions of dollars in scrap and wasted worker time due to preventable human errors.

#### THE INVISIBLE AI SOLUTION

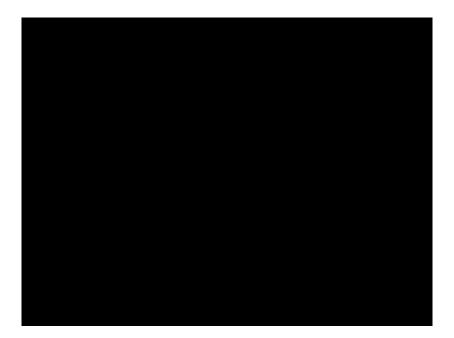
We have built an Al-enabled camera that tracks hands, wrists and body movement to monitor manual assembly processes.

Our camera is an error-proofing tool used directly by operators.

Hey, it looks like you forgot to do step 3 in the last cycle!



#### **DEMO VIDEO - PROCESS MONITORING**



Link: <a href="https://vimeo.com/385347825/e12af867e9">https://vimeo.com/385347825/e12af867e9</a>

This is how our system monitors manual assembly processes to ensure high quality

# **PRIMARY BENEFITS**



Increase production quality



Automated Kaizen for assembly



Faster root-cause analysis



Reduce training time

#### **KEY ADVANTAGES**

Our cameras are easy-to-use and can be deployed in 15 minutes without a single line of code.

- Anyone can deploy our camera at a new process using a web browser
- Our cameras have built-in intelligence and don't upload any video to the cloud



#### **GET STARTED TODAY**

We're currently working with multiple OEMs, including Toyota North America, to bring this technology to market.

Contact us at <a href="mailto:sales@invisible.ai">sales@invisible.ai</a> to schedule a demo today.

# Get in touch

Email us at sales@invisible.ai

www.invisible.ai

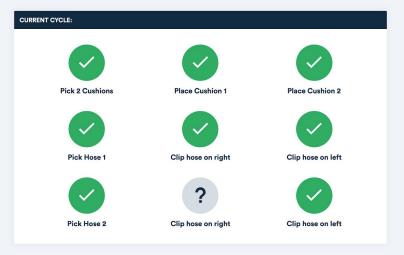


#### **Operator View**

This is how an operator would get real-time feedback to ensure high production quality







## **Operator Feedback**

Our Al-enabled cameras work with operators to prevent quality issues in real-time, such as an unfinished cycle — helping you easily prevent avoidable human errors.

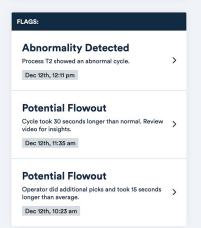


## **Shift Analysis**

You can pull up the video for any cycle and compare the shift to other shifts as well

SHIFT INFO:	
Start Time	Dec 12th, 6:30 am
End Time	Dec 12th, 3:30 pm
Total Cycles	78
Total Time at Station	8.3 of 9 hours

SUMMARY:			
55s	73%	3	
AVE. CYCLE TIME	PRODUCTIVITY SCORE	FLAGS	





#### **Team Leader Feedback**

Our cameras can automatically surface the best practices in your processes — enabling you to implement a continuous improvement system across your entire facility.



#### **Search Results**

Look up a VIN number to find each process the product passed through

2GCEK13T961100610

SEARCH



**Transmission Loading** 

Dec 14th, 3:15pm



**Transmission 1** 

Dec 14th, 3:18pm



#### **Transmission 2**

Dec 14th, 3:20pm Abnormality Detected



**Transmission Unloading** 

Dec 14th, 3:30pm

# **Root Cause Analysis**

Our low-bandwidth and low-cost cameras can be deployed at each station to give you full visibility into assembly processes allowing you to quickly identify the root cause of any issue.

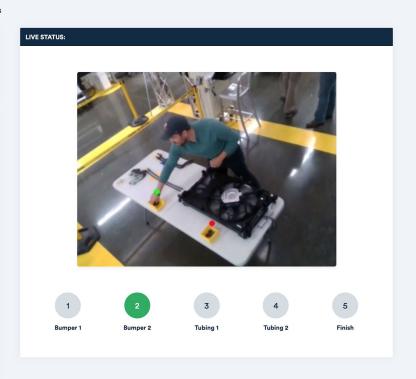


## **Training Mode**

Use the AI coach to get up to speed on any process



**ERROR RATE** 



# **Operator Training**

Our platform also serves as an Al coach to help operators learn new processes quickly — letting team leaders spend less time training, and more time leading.