

Are we able to count our coils using a flying drone?

Initial situation

Nowadays workers do stock-taking of coils in order to verify the stock in our system matches reality. By using drones, we aim for reducing the time workers spend for non-value added activities.

The Challenge

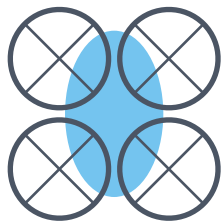
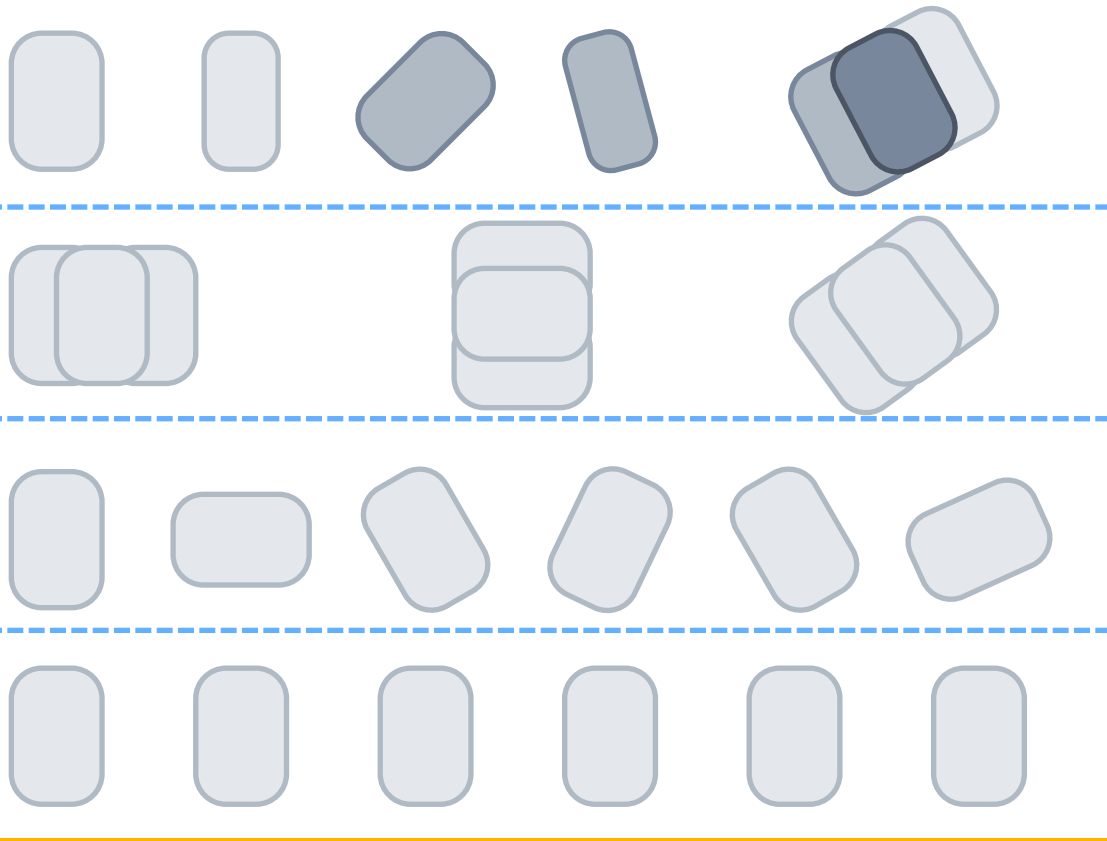
- Take a drone and fly over the provided model of our warehouse (toilet paper = coils).
- Capture a video and analyze the data in order to classify coils by using a technology you prefer (e.g. machine learning and computer vision).



The less assumptions you implement into your solution the better!



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BOSS

Different orientations / overlapping / different size / different surfaces

LEVEL 3

Different orientations / overlapping / same size / same surfaces

LEVEL 2

Different orientations / no overlapping / same size / same surfaces

LEVEL 1

Same orientations / no overlapping / same size / same surfaces

ACHIEVMENT: Time to relax

Let the drone fly autonomously!

ACHIEVMENT: Holy grail

One algorithm to count all coils!

