Task : How would a computer be able to identify where the man is present in the video?

Observation:

1. Camera view is from the ceiling.
2. Video is sped up 4x and is blurry
3. Man first wears a blue long sleeved shirt then puts on a black hoodie, both the blue sleeved shirt and black hoodie has a tag on them.
4. Man initially works on his desk at the left side, then proceeds to walk over to the right along a small corridor.
5. Sometimes the badge is not visible as he occasionally turns his back
6. He is the only employee wearing a badge
7. He returns back to his seat after a short while

Assumptions:

1. The HR has a clearer image of the man
2. We have extra cameras to view from different angles

Situation and Solution:

Situation 1: The man wears a light blue shirt, from 0:00 to 0:12 Before he starts walking onto the corridor

Problem: The man’s face is not shown very clearly, the badge is not shown. Identification algorithm?

Situation 2: Man walks along the corridor, 0:12 to 0:53, badge is shown

Have an algorithm which detects the badge worn by the man

Situation 3: Man has his back turned, badge not visible