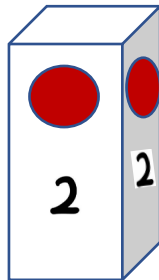
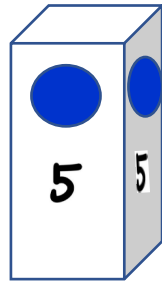
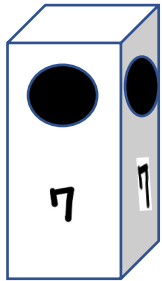


# Emergency Landing

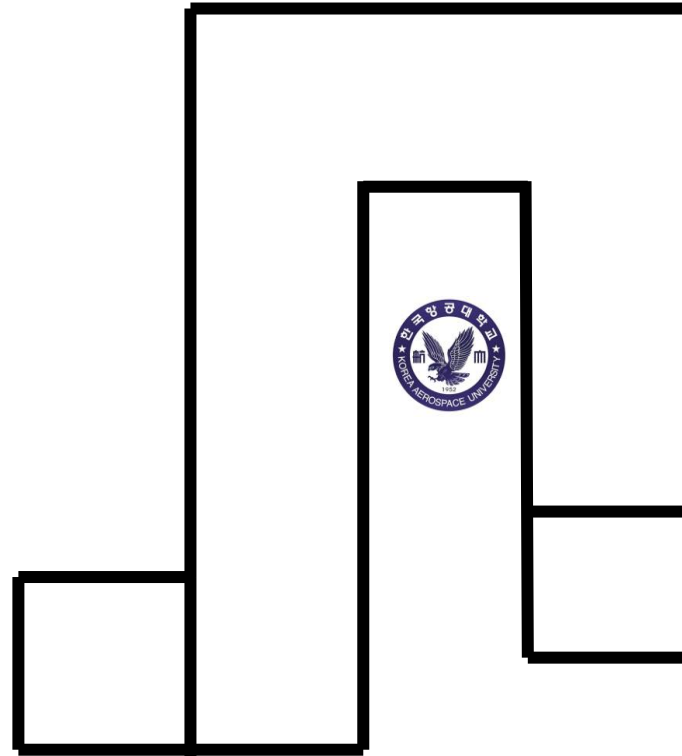
Algorithm : Mission Summary

Final-Round presentation

### 1. Flag Recognition Course



### 2. Tracking Course



### 3. Landing Course

KT-1



A380



AH-64  
Apache



F22



# Mission Solution

## 1. Flag Recognition Course

### Step1. QR Dectection

- Opencv qr detector
- Pyzbar module

### Step2. Flag Recognition

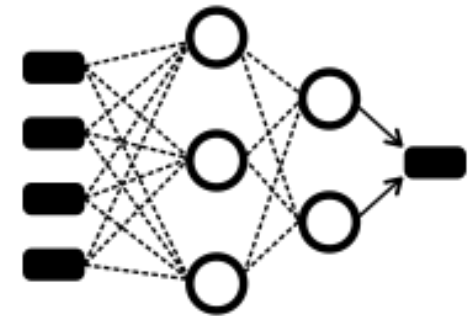
- Opencv blob detector
- Yolov5 (handwriting)

## 2. Tracking Course

- Use yolov5 model
- Tracking by PD(box size)

## 3. Landing Course

- Use yolov5 model

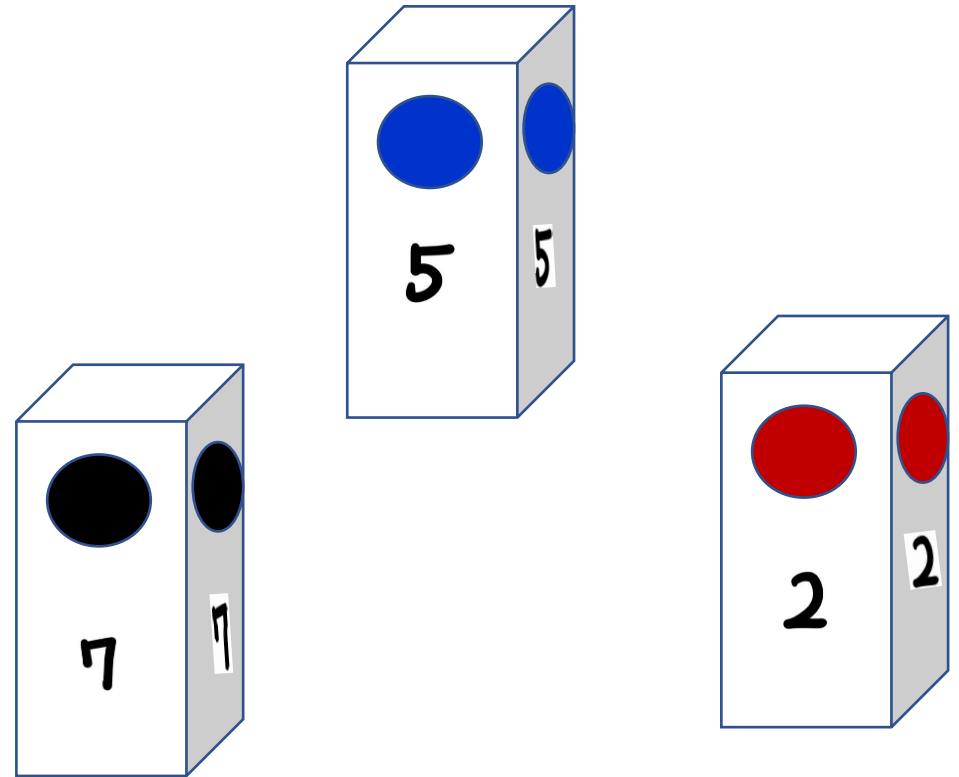


# 1. Flag Recognition Course

Step1. QR Dectection



Step2. Flag Recognition



# 1. Flag Recognition Course

Step1. QR Dectection

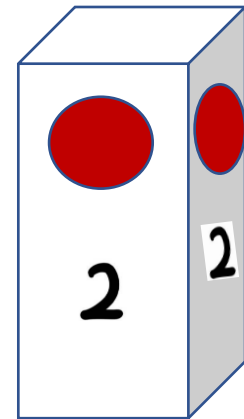
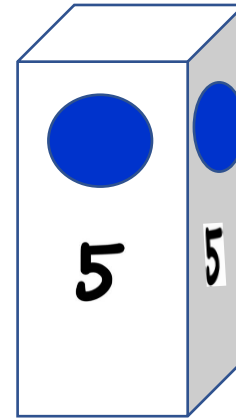
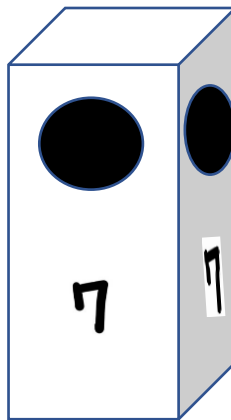


Drone hovers for 5 seconds

# 1. Flag Recognition Course

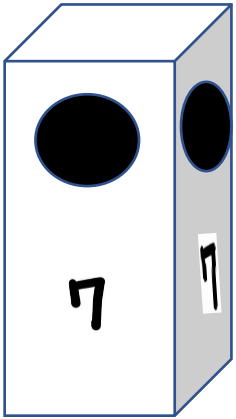
## Step2. Flag Recognition

Circle Detected!



# 1. Flag Recognition Course

## Step2. Flag Recognition

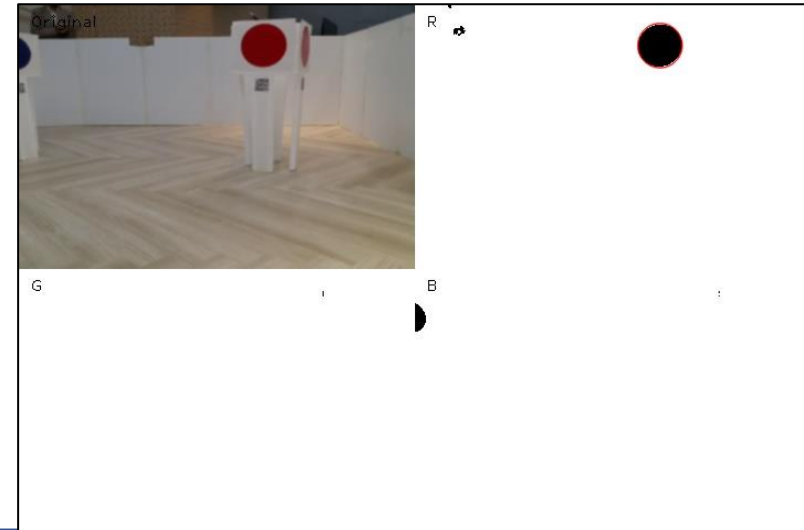


def clr\_bin( ) -> Binary(Black and White) color filter

def blob( ) -> Circle looks like a dot from a distance

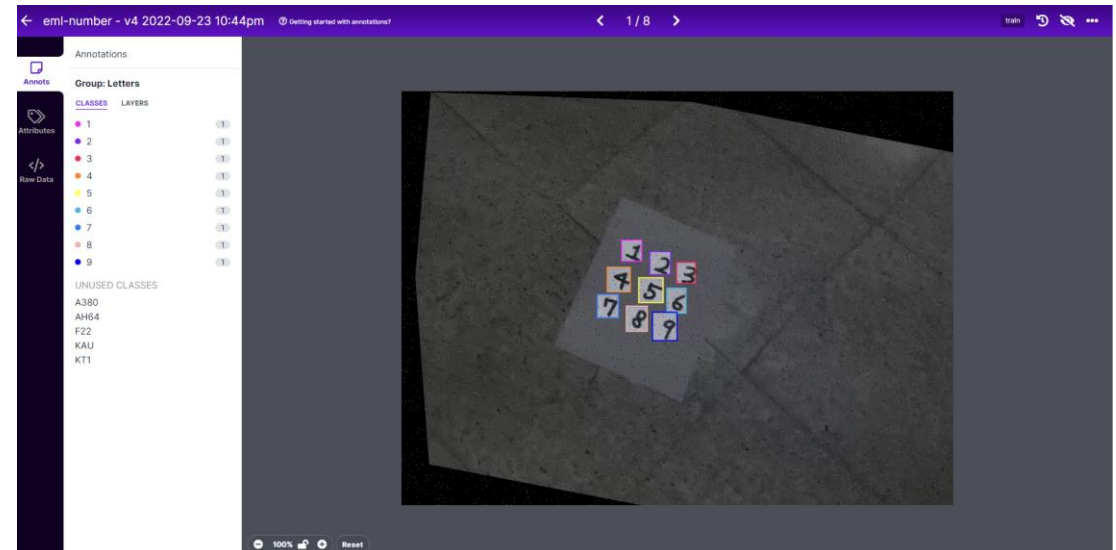
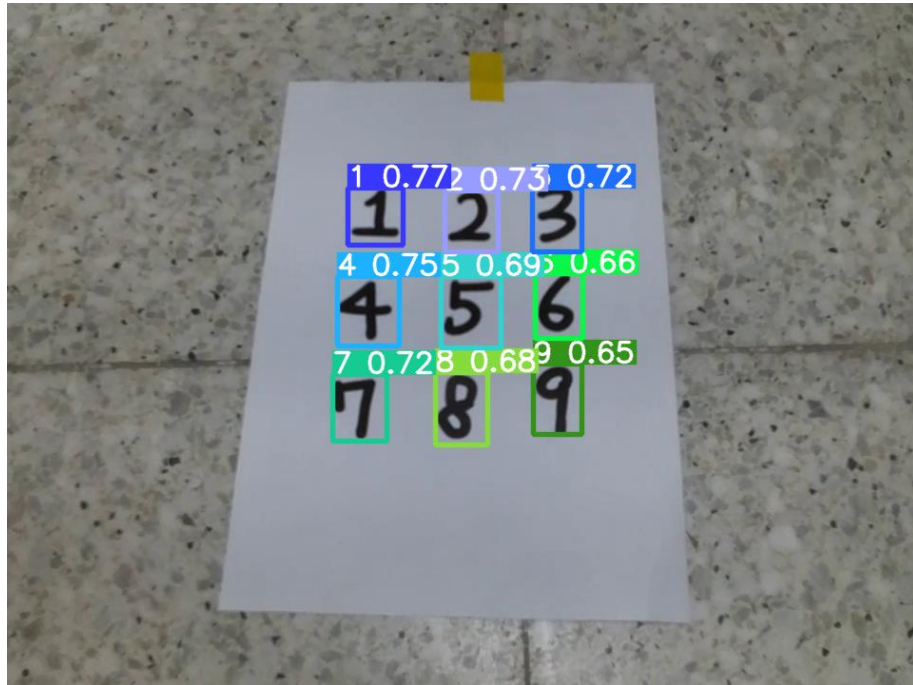
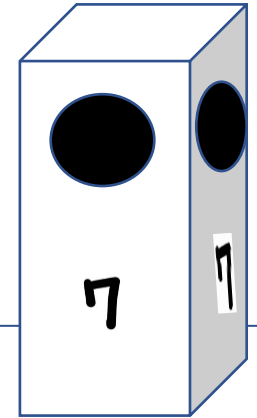
def circle\_follow( ) , def circle\_bin\_detection( )

class yolo -> def detect\_letter( )

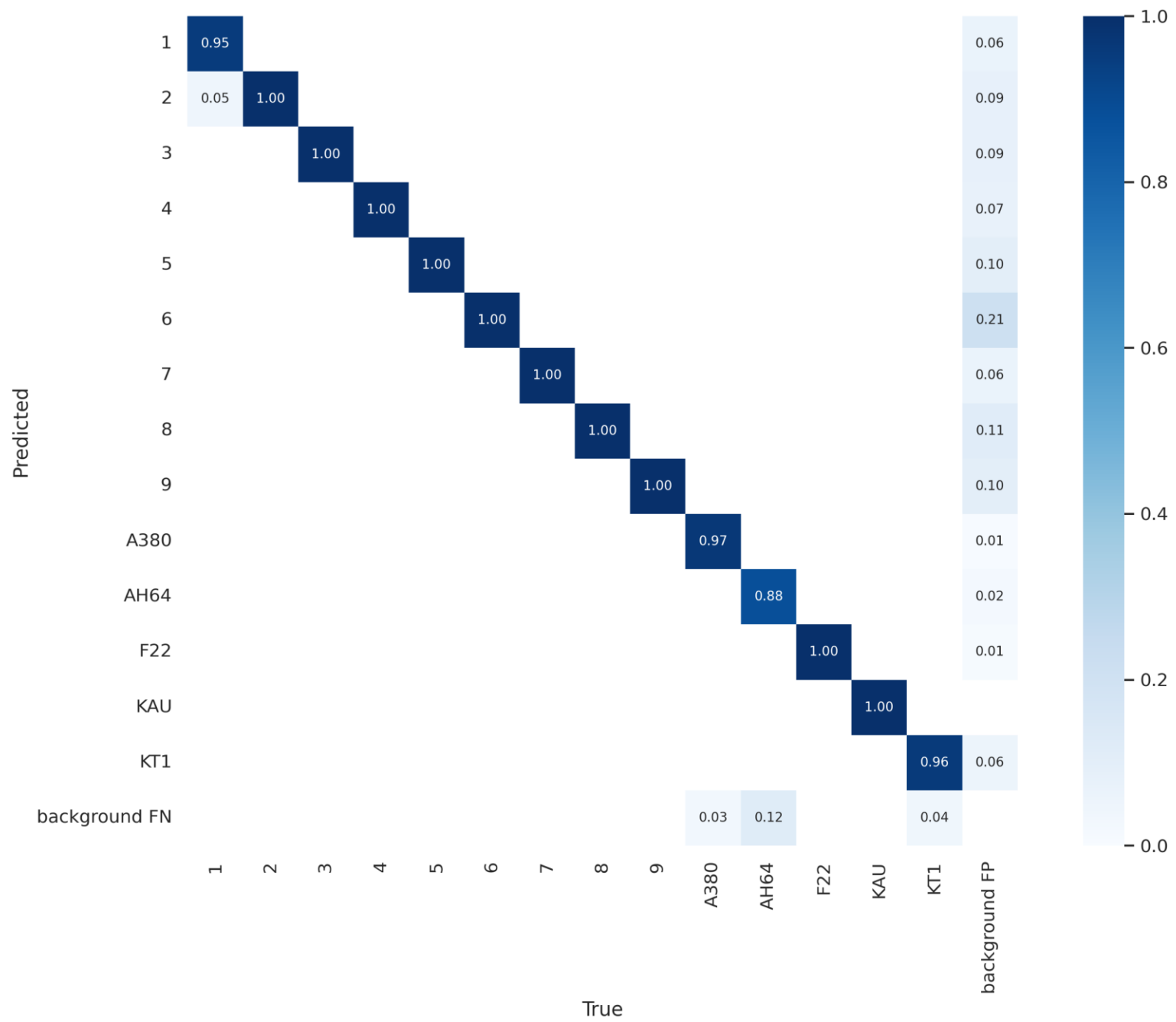


# 1. Flag Recognition Course

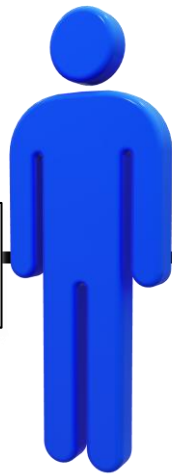
## Step2. Flag Recognition



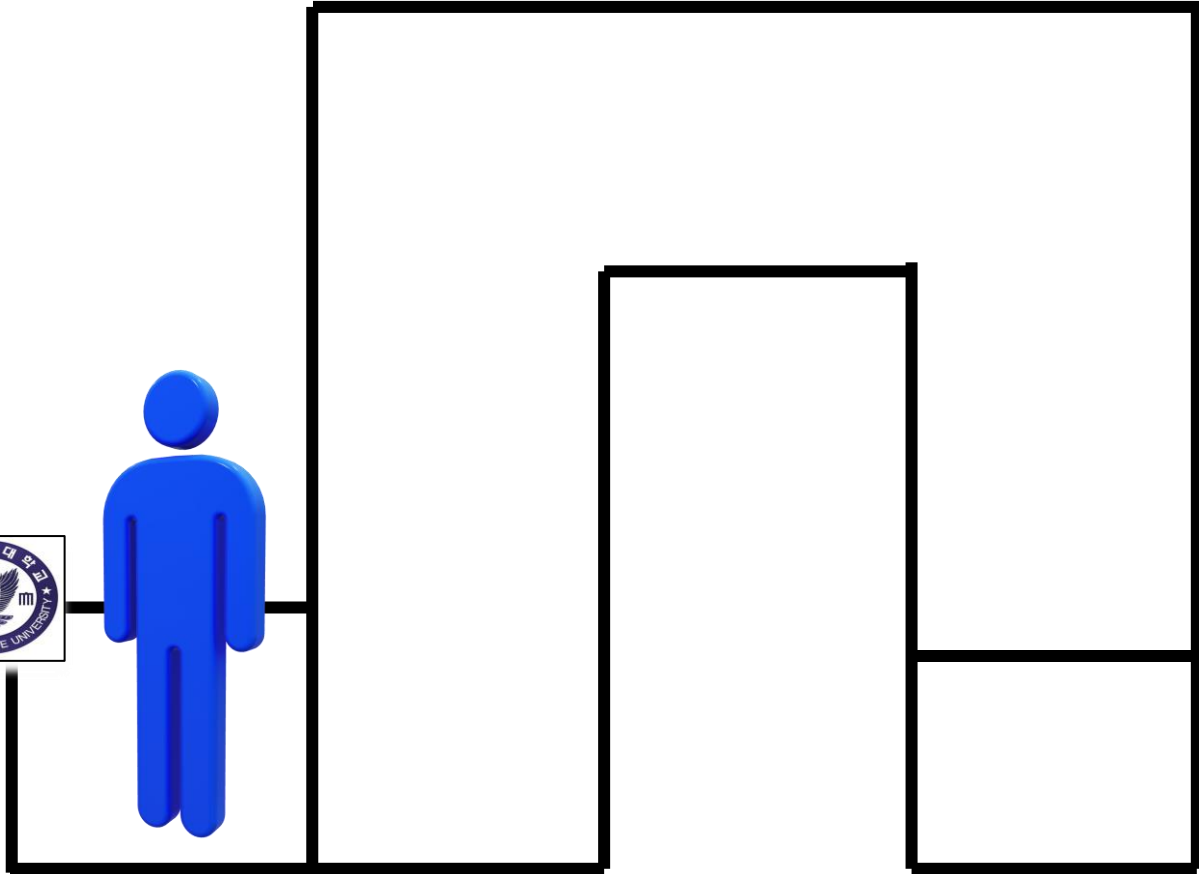




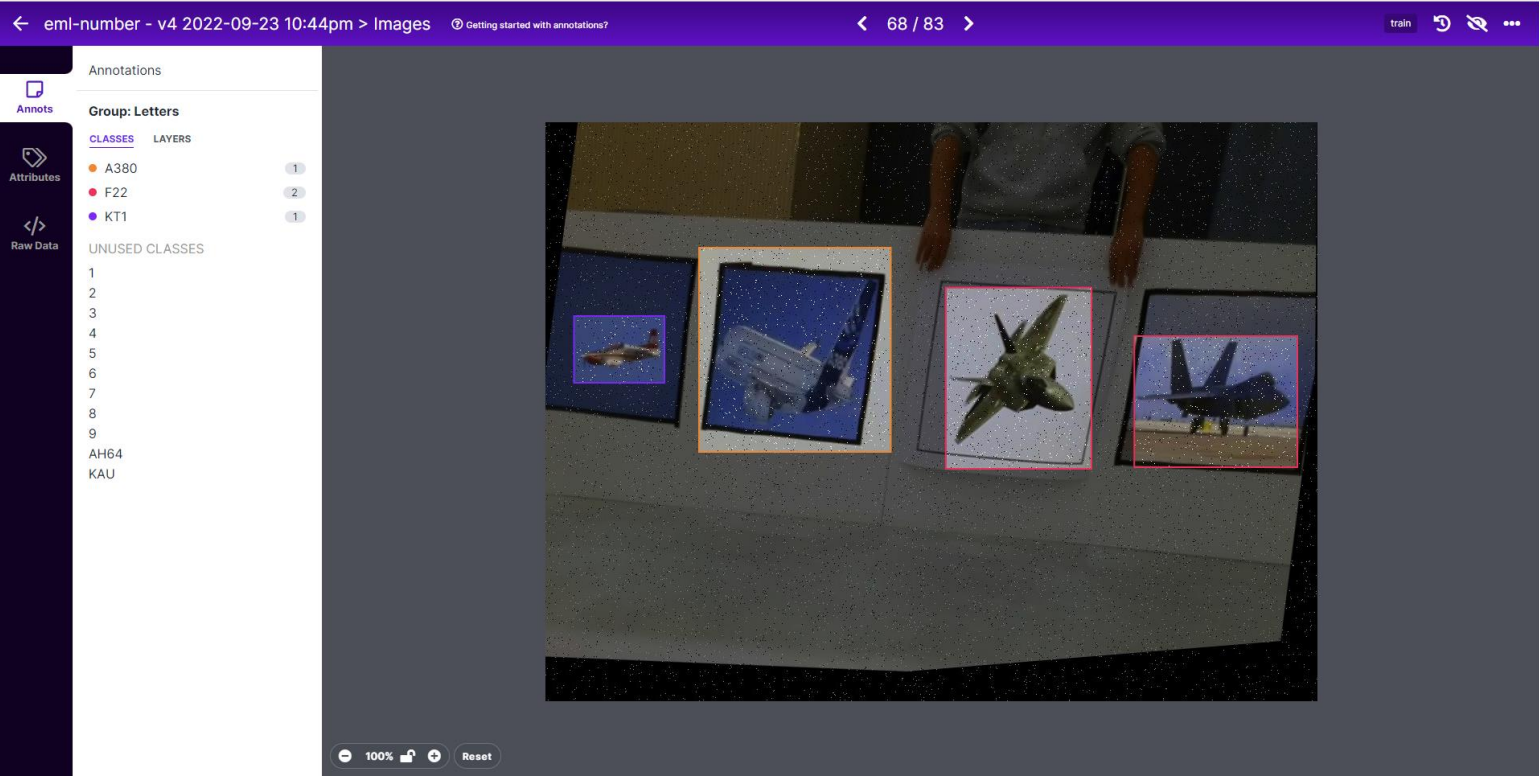
## 2. Tracking Course



## 2. Tracking Course



# 3. Landing Course



The Final Landing Site!!



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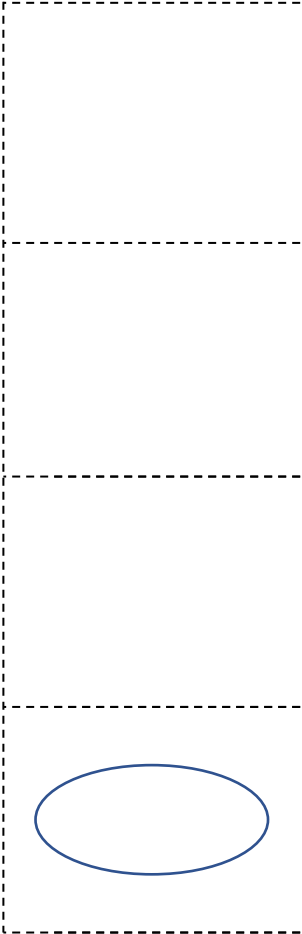


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# 3. Landing Course



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Emergency!!!



Thank you!  
Emergency Landing

