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title: "Tests to perform on the 15th of October"
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# Tests to perform on the 15th of October

## Capturing images for training
   Drone
   Ball
   Drone with the ball
   Method to capture images:
     - drone carrying the ball, flying in a figure 8 (a lot of batteries)
     - multiple drones with camera capturing from all angles, also capturing multiple
drones in the same view
     - on ground camera/video to capture drones flying

## Test jetson + zed camera on the drone (Hardware)

   Test flying time
   Test positional tracking through zed camera
   Same for intel and realsense camera

## Autonomous testing

   Autonomous takeoff and landing
   Fly a specific GPS coordinate
   Fly in a path using a 3D quadratic function

# Test Set-up

   Two drones
   One jetson and another on board pc
   One zed and one intel camera T265
   Set up the software
    Ubuntu 18 or 16
    Ros melodic or kinetic
    Mavros on both
    (for ZED) zed wrapper and package to translate position data from the camera
message to mavros so the pixhawk can see the data
    (realsense) same as ZED
    waypoint package/file
```