

# Weekly Report five

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**Name:** Shuwen Li (V00024025) & Zijian Chen (V00867494)

**Course:** CSC461 Course Project

## Title:

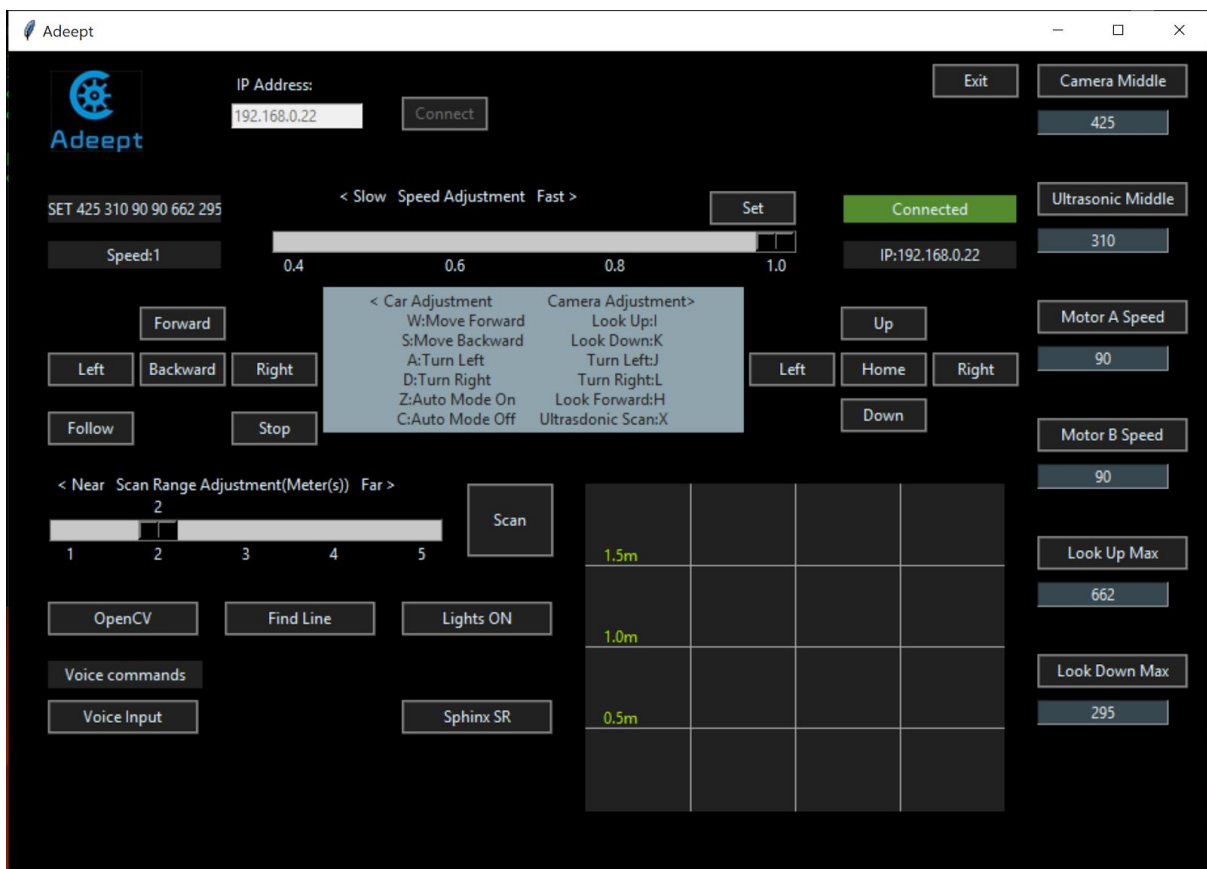
To use the camera and OpenCV to track the object and control the Picar to follow the object.

## Description:

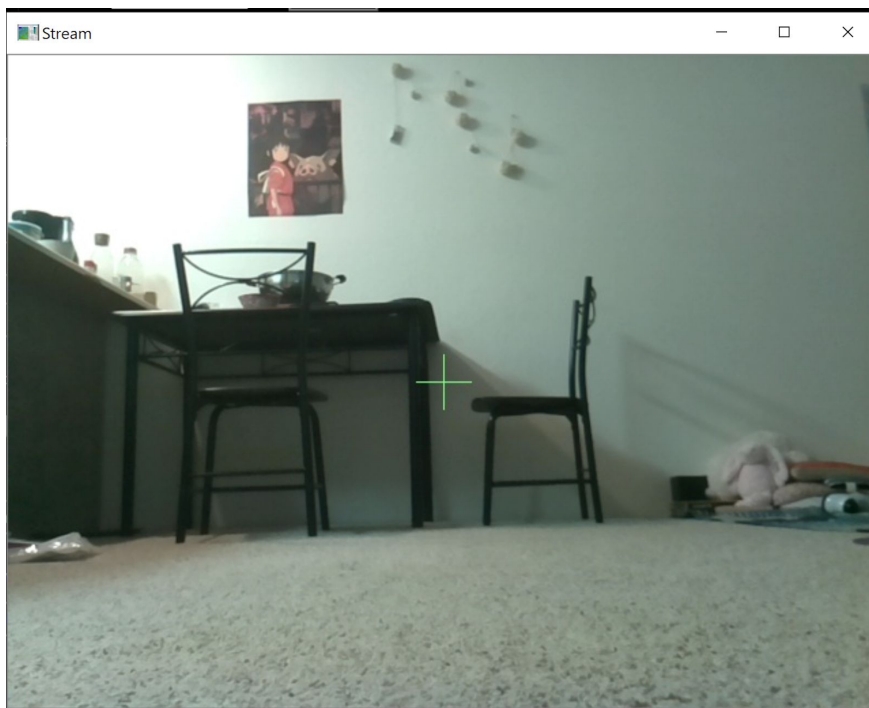
In the program, we set the OpenCV to track the biggest yellow object, and basic on the video stream calculate out the distance and to keep track and follow the object.

## Process:

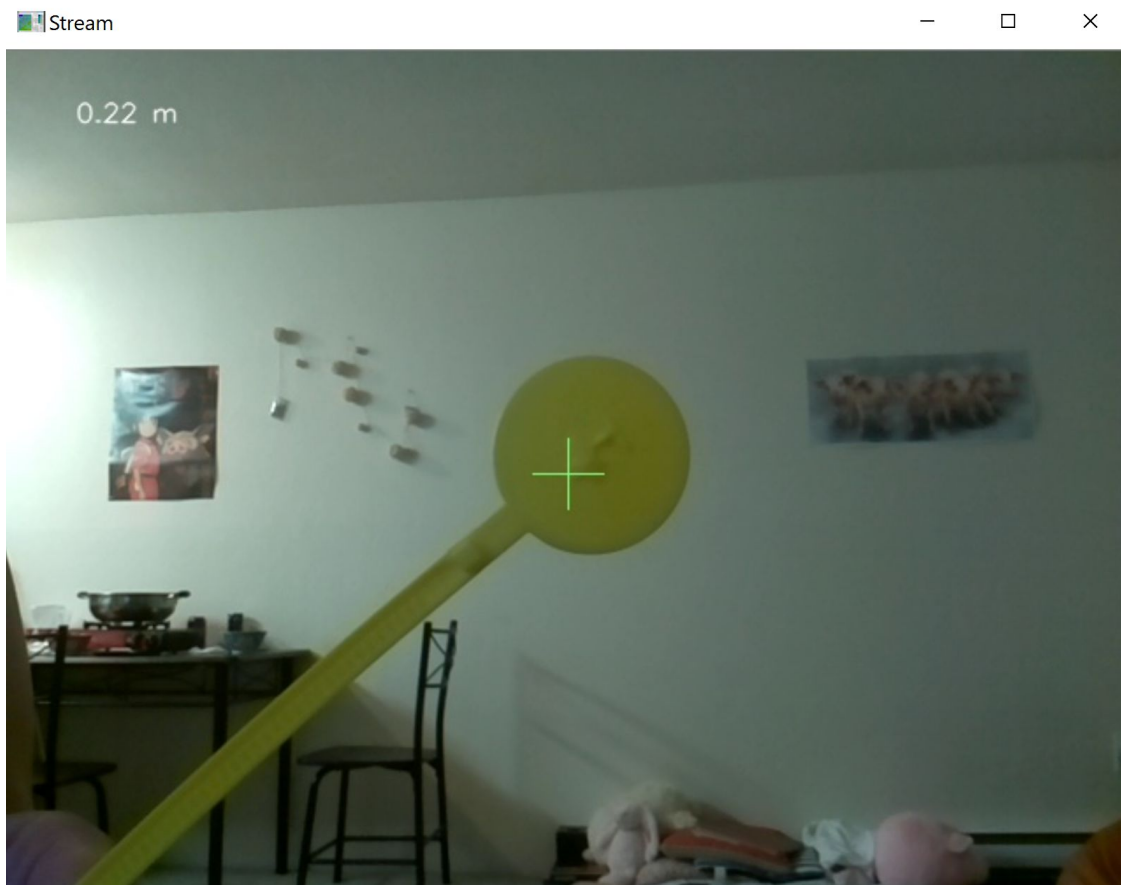
First, to connect the Picar and run the code on Picar and local desktop.



Now hit the OpenCV button, and the function will run.



Now, the video stream starts to run, if we place a yellow object on the front of the camera, and it will track the object and it will move its camera and keep the yellow object in the middle of the video stream.



Also, the car will keep a good distance between the object and itself. On the top left we can see the distance is 0.22m, so the Picar will move backward and to keep the distance in 0.4m fur form the yellow object.

## Conclusion:

This week, we study how to use the OpenCV and to understand how this works and we test out and set it to track the biggest yellow object in the video stream. Also, we need to calculate the distance by using the video stream image per each frame and to keep the Picar in the good distance between the object and itself.