# Check if immediate photo capture is possible by signaling

# Summary

## **Location & Date**

TBD

## **Description & Aim**

We would like to capture exactly where the ball has landed on the table. To achieve this, we plan to sense when the ball has hit the table, be it vibration sensor or audio sensor, and capture the place of the ball with our image sensor. This test is to see if we can capture the exact place of the ball with little error when a correct signal is emitted.

## **Participants**

TBD

# Preconditions & Environment Requirements

* RasberryPi
* An image sensor (a webcam, piCamera etc.)
* A table tennis set-up
* A signal emitter with the correct timing
* Ball launcher shooting at the exact place at an interval (ground truth)

# Scenario

|  |  |  |  |
| --- | --- | --- | --- |
| **Step** | **Data** | **Expected Result** | **Actual Result** |
| Connect power supply to RasberryPi | - | - | - |
| Connect image sensor to the RasberryPi | - | - | - |
| Execute the ball tracking software | - | Program runs successfully | TBD |
| Start the ball launcher | - | - | - |
| Compare the generated results and ground truth. | (x,y) coordinates (in cm) of the place where the balls repeatedly lands | (x±2cm, y±2cm) | TBD |