

# Week 13 Meeting Minutes

*Chick Counting Group*

## Monday 4/28/25

During this meeting, we mainly discussed our objectives for the upcoming week:

- Discussed how we would plan to collect RGB and thermal videos on the Mock environment
- Further test the pi to ensure that all scripts are working, determine a good height for the camera
- Test the new external camera for data collection
- When testing, we can place the tennis balls in the fridge (or leave them in the sunlight) to simulate the different object temperatures.
  - o Discussed how either method would work just as well, since the Thermal camera captures the raw temperature data and plots it. Therefore, the base color is determined on the average temperature reading, so cold tennis balls would be highlighted just as well

## Wednesday 4/30/25

This meeting discussed future plans:

- Discussions of camera mount designs and heights
  - o Getting measurements
- Discussions about how we plan to run the models at perdue:
  - o Will have to attach some external machine to the pi to run the model, with the current pi being dedicated to only video capture
  - o Can wire external machine with ethernet, will be quickest
  - o Discussed what the external machine could be, either a stronger raspberry pi or full-sized PC.

## Friday 5/2/25

Due to various sporting/misc. events, only Anye was able to attend this meeting.

However, he reported back:

- The external camera at 60 fps looked best in the tennis ball mock test, and is suitable for the next steps
- The mock environment no longer needs building, with the Perdue contract nearly finalized and site visits likely by late June
- The camera stand will need to be the biggest priority within the next coming weeks
  - o We should account for both overhead and angled cases, in case of Perdue's potential safety concerns
- Discussed the potential of a promising new high-sensitivity thermal camera