

Weekly report

1 *My Objectives Recently*

- Completing the table for kilobots
- Running the experiment of going to light

2 *My Accomplishments this week*

2.1 *Kilobots*

- We completed the table.
- I ran the first experiment, but the problem was that kilobots couldn't notice yellow light. When I used my phone light, they could understand it when it was close enough, but when I used yellow light bulbs, they could not understand that. I have bought some white light bulbs to see if it will work for them or not.
- I wrote the code for Arduino working with matlab, and it works.
- From the matlab code of finding circles, I extract mean and variance and covariance, and so now everything is ready.

3 *My Plan for next week*

- Making webcam steady on the table.
- Having the experiment of controlling mean with 100 kilobots(We have now all the components we need, I just have to find source of light that robots can see)
- Going back to Algorithm for using friction. Completing the mathematica code, and go further for more than 2 robots.
- Making a demo of the robots following a robot with kilobots.

3.1 *Meeting with Dr. Becker*

- What are the things I have to achieve for ICRA paper?
- How can we make the webcam steady?
- Should I meet Dr. Wosik and talk to her about the time of my QE?