Weekly reports are to be emailed to atbecker@uh.edu by 5:00pm on Tuesdays. The purpose of a weekly report is to: (1) give you text and images for your papers, thesis, and dissertation, (2) document progress, (3) identify if you are stuck or need resources.

Weekly report

1. **My *Goals* from last week**

*Project 1* <Kilobots Matlab>

*Project 2* <Object Manipulation Simulation>

* Having a working simulation
* Run the tests
* Plot the results
* Write the paragraphs explaining the main/transfer regions.
* Write the algorithms for the paper

*Project 5* <Object Orientation Matlab>

*Project 4* <Object Orientation Simulation>

*Project 4* <Mean Game>

* None

*Project 5*<Miscellaneous>

* I need to pick my research topic by the end of July. So far I am interested in applying machine learning to the swarm robots. Perhaps through reinforcement learning or deep learning, the algorithm will successfully manipulate the object with the swarm. I’m playing with the idea right now. I need to find a more specific hypothesis/application.
* Look over Chris’s game instructions

**My *Accomplishments* this week**

*Project 1* <Kilobots Matlab>

*Project 2* <Object Manipulation Simulation>

* Having a working simulation -Successful runs
* Run the tests Completed numRobots simulation
* Plot the results -Plotting the results with Shiva
* Write the paragraphs explaining the main/transfer regions. -done
* Write the algorithms for the paper -Haven’t done this yet.

*Project 5* <Object Orientation Matlab>

*Project 4* <Object Orientation Simulation>

*Project 4* <Mean Game>

* None Thought of a new idea, now also managing Mahek
* *Project 5*<Miscellaneous>
* I need to pick my research topic by the end of July. So far I am interested in applying machine learning to the swarm robots. Perhaps through reinforcement learning or deep learning, the algorithm will successfully manipulate the object with the swarm. I’m playing with the idea right now. I need to find a more specific hypothesis/application. -Picked a good topic, enrolled in senior design
* Look over Chris’s game instructions -Currently making the new game on Chris’s new platform.

1. **My *Goals* for next week**

*Project 1* <Kilobots Matlab>

*Project 2* <Object Manipulation Simulation>

* Finish the following simulations and plots before Friday:
  + Object Density
  + Brownian Noise
  + Shapes

*Project 5* <Object Orientation Matlab>

*Project 4* <Object Orientation Simulation>

*Project 4* <Mean Game>

* Assign Mahek tasks for mean game
* Goal Milestones:
  + Creating Obstacles
  + Applying constant flow to robots through the obstacle
  + Semi-dart scoring board at the bottom/ scoring algorithm
  + Add user interface/ Go button/ Instructions

*Project 5*<Miscellaneous>

* + Attend Houston Robotics Day
  + Reach out to computer science professors willing to guide my senior design team.

1. **What I need Dr. Becker to do:**

* I know you’re busy so we can just do the review at the end of the summer. I value reviews on my work and interpersonal interactions with the team because I can learn and improve for my next job!