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
  - **Deliverable 1:** Write Simulink Model and use it to track the sphere. Complete
  - **Deliverable 2:** Write MATLAB script to which tracks sphere and overlays position on raw video feed. Complete

## 2. My Accomplishments this week

- a. Project 1: Magnetic Coil Control for Mico robots
  - Deliverable 1: Write MATLAB script to which tracks sphere and overlays
    position on raw video feed from camera. Video overlay works, Arduino
    subroutine is complete (untested) and controller subroutine is still a work in
    progress. Controller subroutine is a function and is a continuous PID
    controller.
  - Deliverable 2:.Install Camera lens stream video to MATLAB and Simulink –
    Complete.
  - **Deliverable 3:** Build hardware connections for power supply to coils and controllers. See figures (photos) below.





## 3. My Goals for Next Week.

- Objective 1: Write MATLAB script which tests the video detection to command sequence for controller.
- Objective 2: Build frame and power supply for coils.
- Objective 3: Upload code to GitHUB.

## 3. What I need Dr. Becker to do:

- a. Assist with debugging script as needed.
- b. Buy a deep cycle marine battery with a large reserved capacity. This is a better choice than an auto starting battery.