

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:** Determine correct lens for camera and place order - Complete
- **Deliverable 2:** Record test video on back-light with moving sphere - Complete

2. My Accomplishments this week

- a. Project 1: Magnetic Coil Control for Mico robots
 - **Deliverable 1:** Write Simulink Model and use it to track the sphere. See Figure 1 for plot of sphere's track.
 - **Deliverable 2:** Write MATLAB script to which tracks sphere and overlays position on raw video feed.

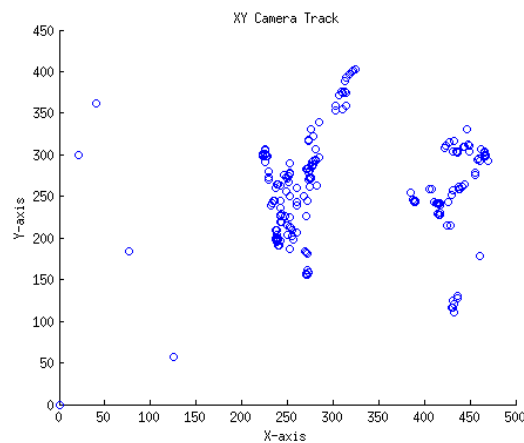


Figure 1

- **3. My Goals for Next Week.**
 - Objective 1: Analyze test videos and determine best way to detect the sphere.
 - Objective 2: Setup video capture program in MATLAB/Simulink.
 - Objective 3: Setup interface with Simulink / Arduino with 24VDC solenoid.
- 3. What I need Dr. Becker to do:**
- a. Assist with debugging script of video tracking program.