Team: House Rules

Date: Monday – February 7, 2011

Time: 2pm in SR

Leader: Christina Powers

Minutes: Paul Scanlon

**Week 3 Meeting Minutes**

* Mechanical Subsystem
  + Discussed:
    - Tom is corresponding regularly with third party consultant about XY Table.
    - Considering moving from a threaded shaft to a smooth shaft. We would have made this adjustment already if not for difficulty of fitting collars/bearings onto .25 inch smooth shaft.
    - At this point, we plan to implement stepper motors, rather than servo motors, as the driving force for the x and y-axes.
  + To do:
    - Christina and Tom are meeting with Professor Stanisic tomorrow afternoon to discuss the advantages/disadvantages of using different bearings to hold pulleys in place.
* Software Subsystem
  + Discussed:
    - Re-rack options are now available after 4 or more cups have been made.
    - Moving forward quickly on this front. Many specific details have yet to be completed; however, the main framework is essentially together.
  + To do:
    - Understand the exact cup locations on the 2D grid and map the magnet to land within some specific margin of error for each cup.
* Magnet Subsystem
  + Discusses:
    - Paul is taking the lead on this new front and will focus on magnet precision and how to engage/disengage the magnet.
  + To do:
    - Contact Professor Seabaugh to acquire magnets for testing.
    - Contact Professor Brownell to acquire servo motor to test engaging and disengaging the magnet.
* Concerns/Suggestions
  + Be sure to build the mechanical system in such a way that it can be deconstructed and rebuilt without having to acquire all new parts.