

Modules Basic Goals

Plant-Magnetic Table (Diana Duties)

- Show that the table can levitate at least 5cm from the base
- Show that the table can hold a small weight and still maintain levitation.
- Show that the table can position with a small disturbance force.

Controller (Ryan Duties)

- Show that the table maintains a height given a counter force.
- Have a “calibration mode” where the user can set the height and tilt.
- Have the current height and tilt displayed on the hex display

Intermediate Goals:

- Attach Accelerometer and make ADC so Controller can take input from Sensor (Diana)
- Make Controller able to control the tilt of the table (Ryan)

Stretch-Goals:

Controller

- During “calibration mode” have the user height and tilt displayed on a monitor
- During “calibration mode” have the user height set by hand motion input.