**Meeting Minutes – Week of 10/28 - Team 11**

**Staff Meeting (Dr. Clark) 10/30 3:00-3:30pm**

1. Progress on arm design
   1. Scrap custom linear actuator, go with a purchased item
   2. X-axis mechanism looks ok
2. Camera Mast
   1. There will be much vibration/ movement of camera, how can this be alleviated
      1. May be some simple software options for image stabilization
      2. Pitch/roll movement can be eliminated with a mechanism or gyro
3. Would like to see an arm and camera mocked up so that arm and claw can be tested

**Working Meeting 10/31 6:30pm-9:00pm**

Attendance: All

1. Worked on design/modeling of camera mast
2. Worked on modeling/design of arm (motion axes)
   1. Looked for off the shelf actuator options
3. FPGA communication protocol development, simulation and testing

**Working Meeting 11/1 5:30-9:00pm**

1. Further work on arm
   1. Realized that entire claw width is lost in extension of arm
   2. Longer span actuators have slower extensions so an optimal balance needs to be reached
   3. Tried to run FEA on arm to determine maximum allowable force but had issues with model
2. Successfully simulated SPI communication protocol