Weekly report

1. **My *Goals* from last week**

* Understand EZ-Robot Six and obtain the ability to code it and control it, enable a GPS module for necessary future work.
* Calibration and initial setup of accelerometer using Arduino.

1. **My *Accomplishments* this week**

* Understand EZ-Robot Six and obtain the ability to code it and control it, enable a GPS module for necessary future work. Currently I’m able to control the hexapod make it move over a WiFi connection and make it do different poses, I’m learning to code it to do a sequence of moves that I can execute. Currently I was able to connect to a GPS unit and get NMEA lines displayed. But this unit is not able to get GPS satellites and hence I’m unable to get an exact location we are at. I would like to buy two different GPS modules just to test how things work out. But the good news is I’m able to hook up a GPS and thus a path planning is possible.
* Calibration and initial setup of accelerometer using Arduino. I’m able to get the accelerations in the x, y and z directions along with the angles for each direction. I have doubts regarding the precision of these values and would work on calibrating the setup to ensure success.

1. **My *Goals* for next week**

* Build a mechanism for the hexapod hexa-copter deployment setup
* Give an written document of the journal paper with the primary sections written
* Carry out drop tests and plan, design and test the mechanism for the Jarts setup
* Make progress with linear programming modules for the proposed heterogeneous robotic system.
  1. Meeting with Dr. Becker on Friday 11 A.M. (If needed this can be changed)

1. **What I need Dr. Becker to do:**
   1. Buying GPS units to test with the hexapod.
   2. Suggest mechanisms for hexapod hexacopter system. May be purchase metal gear servo motors with payload capacities up to 15kg.