Weekly report

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

* Build a mechanism for the hexapod hexa-copter deployment setup
* Carry out drop tests and plan, design and test the mechanism for the Jarts setup

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

* We are on the verge of completing a hexapod-hexacopter lift and drop mechanism which uses a servo motor, it can be controlled manually by using a RC controlled transmitter, to place the hexapod at a particular location and pick it up. This can be further improved by making the drop autonomous using a GPS module a microcontroller and a distance sensor. Making the pickup autonomous scales in difficulty.
* We haven’t done the drop tests yet, thought we would get the electronics to perfection before we started, but by the end of this week we would be able to do it.
* I have got the photon to work with an accelerometer but the information needs to be continuous, using a serial port this is possible, but that means we can only plug in a USB or a bluetooth/ wifi module to it for obtaining data continuously. Transmitting over the internet is possible but seems hard. I could do a Bluetooth connection but that means we are not making use of the wifi feature which is a highlight. The advantage is the microprocessor is compact and the module would fit inside the bomb-prototype we have created.

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

Obtain drop test results

Perform a manual drop with the hexapod hexacopter system

Submit a ppt document for the new poster. (Due tomorrow)

* 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. Suggest a solution for the photon accelerometer data retrieval problem.