**Meeting Minutes #2**

**Date: February 24, 2018**

**Agenda:**

* Discuss strategies for locating the tesseract
* Discuss designs for cube and pyramid retrieval
* Discuss sensors and actuators that could possibly be used in the design

**Discussion:**

1. **Strategies for locating the tesseract**

* Move to the center of the field and spin slowly and scan all four walls looking for the cube
  + - Hall effect sensors have quite a short range so if this strategy is to be used, sensors with a longer range should be used.
* Go around the entire field and scan the entire length of the wall until the cube is located
  + - Hall effect sensors could be used
    - Must be mind full of not knocking the cube off the wall just before locating it as we got around the wall
* Design a retrieval mechanism that picks up anything that is on the wall
  + - No need to find the cube before retrieving it
    - We would just need to know if we have the cube
      * A limit switch or hall effect sensors could be used

1. **Possible Pyramid retrieval designs**

* Each member brainstormed and sketched several ideas individually
* The ideas were looked at by all the members and the duplicated were removed
* Sketches or cad drawings of the pyramid pick up ideas are attached below

1. **Sensors:**

* A document is created for the purposes of compiling a list of possible sensors that can be used for the product
  + This document contains the name of the product, locations where the product can be sourced from, the price of the products and a link to the spec sheet for the product
  + This file will be regularly updated as possible sensors are further researched and the group strategies for completing the task continues to evolve.

**To be completed:**

1. Finalize the pyramid pick up concepts
2. Complete the required concept selection processes for the pyramid pick up (i.e. Decision matrix …)