Weekly report

1. **My *Goals* from last week**
   * Objective 1: Test the OpenROV in the leisure pool.
   * Objective 2: Coordinate with Dr. Zheng’s students that are coming here to test the MI communication systems
   * Objective 3: Fire the Gauss guns underwater (show proof!)
2. **My *Accomplishments* this week**
   1. Objective 1:
      1. Attached the deployment, retrieval and wireless charging mechanisms
      2. Electronics tube wasn’t completely waterproof, the camera servo didn’t work and the vertical thruster didn’t have the power to raise the ROV. Need to work on these three areas
      3. Thankfully the electronics are mostly ok. Tested the pins we’re using (they’re fully functional), and managed to connect to them through my computer. USB micro-B on BBB doesn’t seem to work unfortunately.
   2. Objective 2:
      1. Had a Skype meeting with Mohammad and Yiheng. Talked about the MI comm modules and started a potential test plan. They are bringing the following stuff

1. two 3D coils (hopefully three)

2. two 1 D coils (hopefully three)

3. four MI version 3 boards

4. four to six battery packs

5. two acoustic transducers (hopefully three)

6. two acoustic boards (hopefully three)

* 1. Objective 3: We tested the gauss gun underwater. It worked! Jarrett is editing some nice videos

1. **My *Goals* for next week**
   1. Learn how to use the MI comm modules
   2. Conduct test plan with students from Missouri
   3. Determine if we can do localization with those things
2. **What I need Dr. Becker to do:**
   1. Nothing for now