Overview of Accomplishments:
This week was the final “lull” week. Our subs finally came in so we started to think of designs for the sub. We took the hull off the sub and examined the interior of the AUV. We placed an order for the sensors, which is the first step in designing and integrating our sensors and designs with the existing prebuilt AUV.

Individual Accomplishments:

Joseph Folz:
This week we received our underwater vehicles. After inspection I definitely believe these were the right choice for this project. After opening one of the vehicles I believe there is not enough room inside of the waterproof cavity to include any of our own equipment. However, I believe a workable solution is to communicate with the vehicle’s built in controls wirelessly with our microcontroller using simple radio signals.

Connor Burns:
This week the submarines came! We unboxed the subs, put it together (it was already prebuilt for the most part) and looked at the interior. We removed the hull of the sub, and noticed the entire interior is encased in a glass tube, containing all the circuitry. Also, the initial proposal is due next week, and I have almost fully completed that.

Michael Daukas
This past week I placed an order for and received our first fish finder sensor. I am currently looking for a schematic diagram of the sensor itself so that we can integrate it into our microcontroller. It may also be possible to dissect this first one in order to learn how it works. I attempted to begin using and learning about the microcontroller, but the computer that I was attempting to connect it to refused to acknowledge that the board was connected to it. Hopefully with a new computer I will be able to connect the board and learn more about it.

Questions:

- How big are the modems?
- How will we integrate our sensors/devices with the sub?
- How much can we waterproof if we are to put everything on the exterior?
- How much weight can these subs hold?
- Will the microcontroller need to send constant signals to the vehicle to control it?
- If so, will we need another microcontroller to do this so that the first microcontroller can perform other tasks?
Future Goals:
Now that the subs are in, we will start designing our ideas for our AUV, brainstorming ways to integrate our sensors and modems and other pieces with the already existing components of the subs. Once our sensors come in, we can start testing them and ordering more or different ones. We will also finish up our proposal paper.