Overview of Accomplishments:
This past week we gave our proposal presentation to the senior design class. We are currently working towards writing our proposal document. This past week we have further discussed our signal flow graph and the design of the AUVs. We are currently considering controlling the purchased RC submarines wirelessly with our microcontroller. Also, we have discussed how the algorithms that control making a formation and moving/maintaining a formation. The necessity of inter-AUV communications during certain functions is currently in question, and we are considering the utility of this function.

Individual Accomplishments:
Mike Daukas:
This past week our group presented our initial project proposal to the rest of our senior design class. It seemed to go well, and provided new questions and possible problems that our team had not previously foreseen. Once we figure out how to access our personal funds for the project, we can order sensors to begin testing.

Connor Burns:
This week we presented our proposal presentations to the class. I believe it went very well and was very informative to the class and faculty. I started to turn our proposal presentations into a formal proposal paper which will be due in a few weeks. The submarines came this week.

Joseph Folz:
This week I continued working on our signal flow graph, and considered how two algorithms will work. The first is used to determine how to make the formation. The second is used by the AUVs to move along a certain path and maintain a formation.

Questions:
• Do you think controlling the RC vehicle wirelessly with our microcontroller is a viable option?
• Will localization information come in through the acoustic modem or will it come through a separate component, directly connected to the microcontroller?
• Will the central computer be receiving the localization information, or will each AUV have to communicate this information to the central computer when requested?
• How will we stabilize the AUVs with the added weight of the sensors?
• How do we get access to your lab to work on AUVs at any time?
• How do we order components using our allowed budget?
Future Goals:

Next week a lot of work can finally begin. For starters the ordered RC submarines have come in. First priority is to get one assembled. Using the assembled sub as an example we can begin to design how our components will fit on or in it. Also, we will be ordering some sensors to test, if we determine these sensors are a viable option we can then order more. The microcontroller will also begin to be worked on; we need to familiarize ourselves with it so that we can design our components around it.