2.019 Class Meeting  
3 October 2005

**OBJECTIVE: BOAT TO TRACK A BEACON**

**CRITICAL CAPABILITIES and THEIR SUBTASKS:**

1. **Move autonomously**  
   a. Mount RipTide on boat  20 hrs low est.
2. **Steer autonomously**  
   a. Mount azimuthing drive on boat  4  
   b. Finish servo code and troubleshoot  10
3. **Locate beacon**  
   a. Automatically fire transducer  10  
   b. Process acoustic signals  10  
   c. Control gain on amplifier  
   d. Mount hydrophones and transducer  20  
   e. Troubleshoot/Calibrate/Test  20
4. **Control system**  
   a. Finish serial comms  10  
   b. The rest
5. **Wireless interface**  
   a. Establish two-way comms with TT8  3 DONE
6. **Seaworthy vessel**  
   a. Build internal frames to hold ballast & big batteries  8  
   b. Build platform for electronics  2  
   c. (Install water sensors and alert system)
7. **Power system**  
   a. Sketch system  
   b. Identify and order the needed items  
   c. Build it up  10
8. **Moving the boat on land**  
   a. Build frame  8