**Mechanical Team To-Do List**

**(as of 7/30)**

*[I’ll start working on stuff in this color]*

**1. DESIGN PROJECTS**

**Project A: Internals/Endcap**

* Research Teledyne vs Subconn vs Seacon vs Fischer (I’ll get quotes soon)
* Research cost/feasibility of 3d printed internal frame
* Contact Don about time//cost of a new endcap
* Design new internal frame (dependent on specs of new boards)
* Design new main endcap... and modify all endcaps for new connectors.

**Project B: Flotation System Redesign**

* More stable mounting system
* Removable (or retractable) arms
* Open-water weight tubes (i.e. a threaded rod w/ weights...)
* O-ringed flotation tubes

**Project C: Grabber Redesign**

* Release mechanism
* Passive grab, active release

**Project D: Dropper/Shooter [easiest project]**

* Design panels for dropper and shooter.
* Unit test.... (and hopefully it works..)

**Project E: Underwater Power Switch**

* Either design something using reed switch or get COTS product... I know Seacon had some.. though they were $600+ last time I asked (for the killswitch)

**Project F: Seabee Stand and/or Legs and/or Handles... and Harness**

* Needs to be designed/built...

**2. MAINTENANCE**

* Develop maintenance procedures (seabee manual) for all aspects of Seabee hardware
* Inspect Seabee (disassemble/reassemble Seabee w/ Michael) and document issues
* Replace all current SS screws with aluminum (Michael is getting the screws)
* Follow maintenance procedures.

**3. TRAINING/MISC**

**Solidworks**

* Lydia online course for training (1-month maybe?)
* Figure out repository/svn for the big CAD files... or just use Dropbox again.

**Machine Tools in iLab**

* Contact Kai about using CNC and other equipment.
* Make stuff.

**Seabee and Competition General Knowledge**

* Distribute/make available Seabee and Robosub papers.
* Develop Seabee manual (already covered in maintenance section)