

701145 - Penguin Hotspots

Week 39

1. Paul McGill
 - a. Did more sonar noise testing in lab with Chad W. Discovered that sonar is extremely sensitive to noise on its power input by injecting a signal there.

Week 38

1. Paul McGill
 - a. Modified WBT power supply board. Did a few more noise suppression tests on the WBT with Chad W. Working on setting up an ultrasonic sniffer to see if some noise is acoustic and not EM.

Week 36

1. Paul McGill
 - a. Worked with Chad in the lab to track down sources of noise in sonar. May be a power supply issue.

Week 35

1. Paul McGill
 - a. Did power supply noise testing in lab with Chad. Getting some interference from DC-DC converter, working on solutions.

Week 31

1. Paul McGill
 - a. Got filter board modified for testing of sonar in REMUS chassis. Awaiting reopening for testing.

Week 29

1. Paul McGill
 - a. Working on electronics for Remus housing chassis.

Week 28

1. Jon Erickson
 - a. Finally got the ek-80 chassis parts out of the shop queue. It went together, Paul McG is putting the circuit boards on it for noise testing.

Week 11

1. Jon Erickson
 - a. Waiting on chassis parts from the shop.
2. Paul McGill
 - a. Did more Simrad power supply noise testing with Chad and concluded we need a quieter power supply.

Week 9

1. Jon Erickson
 - a. The EK-80 electronics chassis parts are in the shop queue.

2. Paul McGill
 - a. Finalized electronics chassis layout with Jon E.

Week 7

1. Jon Erickson
 - a. Waiting on the electronics (filter boards).
2. Paul McGill
 - a. Trying to squeeze electronics into a tight space. It's what we do here.

Week 6

1. Jon Erickson
 - a. Waiting for approval from the Udel people of the preliminary design.
 - b. Waiting on a circuit board design to finish the interior chassis.
 - c. Lots of time tied up in drafting.

Week 5

1. Jon Erickson
 - a. Did a Preliminary Design Review, and now prints, prints and more prints.
2. Paul McGill
 - a. Made spectral noise measurements of Simrad sonar power supply and filter. Working with Craig O. to find better filters, and how to measure their effectiveness. Ordered low-frequency ferrites for us to test. Reviewed Jon E.'s housing design for Remus AUV with group.