

Alana Sherman Sorted By Project

300080 - DMO Support Mini ROV

- Bringing up new NUC, this required troubleshooting a fault in the Wago stack. After some muddling around, I have everything working on the first machine I brought up but now I am working to debug an issue with the second machine - seems like a LabView library is missing. (Week 2)
- Fixing an order I botched in almost every conceivable way (Week 6)
- Set up system to bring up NUCs with correct vehicle software. On one machine I have an issue that I am trying to debug. (Week 10)
- Helped mob the Carson on Tuesday (Week 11)
- Worked with Dale to debug LabView issue on back up computer (Week 11)
- Reviewing applicants for MiniROV/EE Position (Week 28)
- Scheduling interviews for MiniROV/EE Position (Week 28)
- Doing schematics for new benthic epod (Week 33)
- Working on new Benthic Epod schematics (Week 35)
- Bringing up new computer with all Mini software (Week 36)
- Made first draft power budget for Benthic Epod (Week 36)
- Working on the schematics for the Benthic E-Pod (Week 40)
- Mob'd Mini on the Carson Friday (Week 43)
- More software training with Dale (Week 50)
- Went on a failed Fulmar trip due to big swell (Week 50)

800139 - EyeRIS

- Attended weekly meeting (Week 5)
- Attended weekly meeting (Week 7)

901200 - AMP

901618 - Pelagic-Benthic Coupling

- Gathered components and realized we need some new cables and connectors to interface to a different strobe than originally planned. Put in an order for what is needed. Pulling together other components to build up the chassis. (Week 5)
- Gathering pieces for Smith macro camera (Week 6)
- Ordered new bulkheads and cables to interface to Seastrobes (Week 6)
- Assembled parts for camera housing (Week 7)
- Began modifying schematic for inclusion of cap charger (Week 7)
- Working on the schematics for Sta. M macro camera (Week 8)
- Finished up macro camera system schematics (Week 9)
- Pulling the parts together for the Smith Macro Camera (Week 11)
- Weekly meeting (Week 14)
- Finding Canon cables or alternates for Close up camera (Week 18)
- Testing cap charger board for new close-up camera, working well (Week 19)
- Starting to test camera chassis electronics (Week 19)
- Tested close up camera with battery and ran in "deploy" -mode for two several hour intervals (Week 21)

- Prepared close-up camera for its deployment next week off the Rachel Carson. Worked through a couple issues, set camera focus, laser position and ran overnight test. Working on pulling together tools and documentation. (Week 24)
- Test the Solo camera tripod which had a mechanical failure of the glass port during the last cruise. After it was tidied up and the batteries replaced I pulled together all the pieces to do a lab test of the system. It was a walk down memory lane but I got it working on the bench. Next step will be to test it on the tripod. (Week 35)
- Getting Macro tripod ready for next weeks deployment (Week 36)
- Spent most of the week prepping for the Flyer cruise to Sta. M. Everything is on the ship and there were less things to search for than I feared. (Week 40)
- Prepped the SOLO camera for deployment. This was not as easy due to a number of small issues and also the obsolete software requires an obsolete operating system so it became a multi-laptop endeavor to full test. I finally got it tested and ready to go. (Week 40)
- Unpacking from cruise, organizing lab and assessing each system and the work left to be done. (Week 42)
- Working with Raul on press material for Rover paper (Week 44)
- Testing various components of Rover that had intermittent comms issues. (Week 45)
- Replaced batteries for Rover (Week 50)
- Trying to troubleshoot a few things (Week 50)

901809 - Deep Sea Bioinspiration

- Found some connector parts for Paul R.'s version of the interface can (Week 9)
- Weekly meeting (Week 14)
- Finished schematic of new dye injector (Week 18)
- Help review Kakani's talk (Week 21)
- Tried to help gather things for Falkor cruise (Week 32)

901904 - Deep-Sea Coral-Sponge Community Observatory

- Set up the spare Raspberry Pi for our Coral camera systems with FaceTime help from Paul. Working on the best way to release the Sony camera from the computer's control (which won't allow remote shutter triggering). Set up a relay board to figure out which lines of the USB connection need to be severed. Good news is it looks like just two lines will be sufficient to release the camera. (Week 1)
- Reviewing Paul's plans for using DeepSeaConnect (Week 1)
- Resolved issue with camera USB locking up the shutter control. Tested a working solution. (Week 2)
- Working with Paul on cables and connectors for Deepsea Connect aspect of the macro camera (Week 2)
- Specified last part for a small interface board that contains the cap charger circuit and they relays to disconnect the camera USB. James McClure is helping with parts specifications and laying out the board. (Week 4)
- Working on camera schematics (Week 5)
- Working through component selection with James for the Cap Charger/USB disconnect board (Week 5)
- Finished schematics, reviewed connections with Paul and found quite some mistakes, fixing those now. (Week 6)
- Working with James on mechanicals of cap charger board (Week 6)
- Had to reorder Ultravolt cap chargers when the ones received were the wrong package type (Week 6)
- Continuing to refine camera schematics, they are done now. (Week 7)
- Worked out last details with James on cap charger boards (Week 8)
- Finished cable schematics, they are ready for the techs (Week 9)
- Ordered new cable for camera systems (Week 9)
- Revised procedures for DiSCO recovery (Week 9)
- Put together a sea-going kit to recover the time-lapse camera system, this posed more difficulty as the two laptops I was using, had separate but equally frustrating problems to overcome but now both are operational. (Week 10)

- Ordered new deck cable for the system but still not sure it looks tough enough so I ordered another. Other cables for the system arrived. (Week 10)
- Worked out component placement with Aaron for the camera housing. The cap charger boards arrive and I will begin to test those. (Week 10)
- Getting the pieces in order for the macro (Week 11)
- Worked with Steve from shore to get the talking to the Coral Observatory and download images. First report was it took images for 11 months, waiting to hear how the images turned out. (Week 11)
- Pulling the pieces together for the macro camera, hope to start testing the wired chassis this week. (Week 14)
- Working on the macro camera. Worked out my initial issues with USB switching and strobe sync. (Week 16)
- Updated the Snappy software to have the proper timing for the new strobes, seems to be working well in testing. (Week 16)
- Set up test to check strobe sync with camera shutter and light signal with Paul R's help. Hoping to start overnight test of system soon. (Week 16)
- Making schematic for the (Week 16)
- Finished schematic for tilt motor, gathered components for tilt motor for DiSCO camera (Week 18)
- Finished schematic for battery housing for Macro (Week 18)
- Trying to find right and down angle connectors for Sony system (Week 18)
- Made progress testing the battery can connections, and more of the deep sea connect aspect of the system. Still having two problems with the Sony: gets into a state where it does not turn on display or go into low power mode, and can't see SD cards in windows explorer (or Sony software). (Week 19)
- Deck cable of my dreams turned to a nightmare as it does not handle the ethernet signals well despite appearing to be suitable to the task. Trying to find new option. (Week 19)
- Tested new deck cable (Week 21)
- Order new metal shell parts (Week 21)
- Worked on preparing DiSCO (Coral time-lapse camera) for deployment at Sur Ridge during the Barry Flyer cruise at the end of June. Check focus and image quality in the tank, ran overnight test of the system in tank. Working on training Steve to set up the deployment through the ROV during cruise. (Week 24)
- Testing new tilt motor and limit sensors with maxon software, this should be the last task before it is ready to deploy. (Week 24)
- Started setting up the close-up coral camera and discovered a slew of small issues I am working through: small reprogramming of Snappy controller, program of the strobe, random Sony camera issues, reloading software after a laptop failure, etc. (Week 33)
- Arghh, found an issue with our Sony a7R3, which is that the internal battery (which is not customer serviceable) gets drained resulting in the loss of date/time info. While I found a software work around that allows me to still take images, it does not solve the issue of not having a timestamp. I am running some tests to try to determine the lifetime per charge of this battery. And thinking about hacks to make it work. We are far in to change the battery. (Week 35)
- Still have one strobe to reprogram, trying to collect the pieces to do that but missing a test cable.. (Week 35)
- Testing of internal battery looks promising, so we can continue forward with the sony (Week 36)
- Tank testing of macro coral camera started off very good until I tried to do a mock deployment then the wheels came off. After a lot of disassembly the culprit was a bad cable that is pinched due to the constraints of the housing and camera. We shifted the camera and then were lucky enough not to have to do much to get the focal plane where we wanted it. Also realized an issue with how the camera assigns the USB function which makes validating tank testing much harder because you essentially can't see the memory cards and also use the remote shutter function. This system will deploy next week but leaning towards getting the Canon version to try out. (Week 38)
- We deployed the Macro camera last week. The Deepsea connect worked amazingly well, thanks to the efforts of Paul McGill, Paul Coenen, and Aaron Schnittiger who pulled it off! The system is being deployed for 6 days taking images every 5 minutes of a coral. We will (Week 40)
- Continued testing on macro to try to recreate the failure during the last deployment. All my tests have not resulted in any duplication of the failure. The system is not in the cold room running over night. Not sure what to try next. (Week 42)

- Ordering more batteries for both systems as the lead time is now 6 months1! (Week 42)
- Endless testing in cold room and on the bench to try to figure out what caused the failure we experienced in the last deployment. It is very frustrating as I can't get it to fail again. (Week 43)
- Reviewed software for Coral Macro compared with large Coral Cam and Smith Macro cam and did not find any significant differences which could explain the issue. (Week 43)
- Looking for an data logger to monitor in camera housing in case of another failure (Week 44)
- Discovered issue with new Snappy boards not working. Requires a quick fix- hopefully. Learning more about the datalogger and trying to integrate parts into the Coral Camera housing with James help. (Week 45)
- Testing out new cable for remote shutter. (Week 45)
- Discovered the reason for macro camera failure, it was a message on the LCD waiting for a finger to push to turn off. Luckily we got two days of beautiful images and everything else worked. We will try to get the Canon EOS R6 integrated in January. (Week 50)

Out of Office

- Vacation last week.
- Sick leave Tuesday afternoon for dentist appt.
- On vacation until Mon, Aug 2nd
- On vacation Wednesday
- Out sick last Thurs and Friday
- Out early Monday for a dr appt
- Dr appt Weds am
- On vacation Dec 20-31 yay!!

Overhead

- Sending out allocations for EE's hours, will work on review materials next. (Week 1)
- Began review process, contacted all PMs and PIs for feedback (Week 2)
- Watched the film "Picture a Scientist" (Week 2)
- Almost all overhead this week. I wrote up and conducted all nine performance evaluations for the EE group. (Week 4)
- Preparing for brown bag on mentoring (Week 6)
- PE interviews (Week 6)
- Eng supervisors meeting (Week 6)
- Brown bag meeting on mentoring, plus planning and follow up meetings (Week 7)
- First interview for PE position (Week 7)
- Conversation with Li-ion battery consultant for safety trainings and pack reviews, working on RFQ (Week 7)
- Two more interviews for the new PE position (Week 8)
- Sent off RFQ for Li-ion battery training and reviewing quote for battery safety team (Week 8)
- Renewed TWIC card (Week 8)
- PE interview #3 was last week (Week 9)
- Had 4th interview for new PE hire. (Week 10)
- Meeting with Flaad for new building G (Week 11)
- Meeting to discuss mentoring brown bag follow up (Week 11)
- Proposal reviews for DOE (Week 14)
- Seminar for WHOI AOP&E department on Weds am (Week 14)
- Seafloor processes PI hire interview (Week 14)
- Attended Kendall Moore's seminar (Week 18)
- Wrote job description for EE position (Week 18)
- Attended PI meeting to discuss microbiology PI position (Week 18)
- Attended CPF high density battery pack design review and follow up conversations (Week 19)
- Abstract presentations (Week 21)

- Strategic roadmap steering committee meeting (Week 21)
- Finalized budgets for EE group, and microwave (Week 28)
- Finalizing expense and labor budgets for many proposals (Week 28)
- On vacation last week (Week 28)
- Proposal review follow up (Week 32)
- MiniROV position hiring activities (Week 32)
- Followed up on half a dozen things as part of the phase 1 feedback. (Week 33)
- Attended last supervisors meeting to review allocations and feedback (Week 33)
- Finished the job search for MiniROV/ EE (congrats to Ben Erwin) and started job search for EE (Week 35)
- Phase two proposal review and labor allocation balancing was done on Tuesday, we are 98% there. (Week 36)
- Conducted first meeting for the new EE hiring committee to set up a procedure, etc (Week 40)
- EE hire #1: met with Scott and Chad and reviewed all resumes, came up with a short list to do short Zoom interviews with starting later this week. (Week 42)
- Strategic roadmap meeting (Week 43)
- Hiring, lots of work on the EE hires (Week 43)
- Most of my time has been spent on hiring this week. We finished the first EE position zoom interviews (8 in total), moving on to alerting candidates for in person interviews and scheduling. (Week 44)
- Working on second EE position as well, and reading applicants for Seafloor processes PI search (Week 44)
- Hiring!! We are interviewing for one EE position this week and next. Lots of scheduling and preparation. (Week 45)
- Hired, worked on the Mark Chaffey replacement position. (Week 45)
- Hiring committee meetings for EE position and Seafloor Processes PI (Week 50)
- Out early Monday for a dr appt (Week 50)
- Lots of last minute work on the group resource allocations for 2022 (Week 50)