

Alana Sherman Sorted By Project

901023 - Continental Margins

- We had our first planning meeting regarding the Arctic expedition next year. (Week 25)
- We have held meetings to discuss the Arctic cruise logistics (Week 26)

901205 - ESP/Readinet

- Added highside switch for the pressure switches (Week 3)
- Working on serial transceivers (Week 3)
- Back on the board, went through state of the design with Scott (Week 11)
- Put project into EDM (Week 11)
- Working on a bunch of small details after meeting (Week 11)
- Met with Scott and came up with a list of items for the readi-net board (Week 12)
- Read up on jtag/swd pinout although still had questions (Week 12)
- Adding the circuit for the NFC reader (Week 14)
- Working on adding the NFC reader circuitry to the project (Week 15)
- Finished adding the NFC section (Week 16)
- Working on the RS232 transceivers and USB to RS232 (Week 16)
- Added pads for unused MCU pins (Week 16)
- Working through my list of tasks on the sampler control board (Week 19)
- Updated otpo circuit, looking for 3V dc-dc and regulator for the flow sensor (Week 20)
- Identified two candidate power supplies for 3.3V and 12V after looking at many, both are on order (Week 21)
- Added new GPIO assignments and added interface for laser range finder (Week 21)
- Finally added the 3.3V switcher after looking through many options (Week 24)
- Working on regulator for the diaphragm pump and current/voltage sensing (Week 25)
- Added high-side switch for diaphragm pump, linear regulator for flow sensor, and current monitor (Week 26)
- Working through feedback from George on Fido board (Week 31)
- Adding some final features (battery back up, low voltage interrupt) (Week 31)
- Working on reverse polarity protection, and other little mods..getting closer (Week 32)
- There are a few more things on the board. We realized that adding a 5V regulator for the Vacuum pump would make several things easier, so I need to implement that. James is working on making all the pumps, etc. (Week 33)
- Double checking all the connections (Week 34)
- Made a few small adds and one pin assignment fix (Week 34)
- Reviewed layout with Scott and James (Week 36)
- Making a few small changes and caught a couple issues (Week 36)
- Added protection for one USB port (Week 37)
- Went over silk screen with scott and james (Week 37)

- Board should be sent out this week (Yay!!) (Week 37)
- We are bringing up the board, finding little issues and addressing as we go. (Week 40)
- Continued working with Scott to bring up Fido board. All circuits have gone through initial testing (Week 41)
- Measured current sense circuit (Week 41)
- Modifying schematics for rev B (Week 41)

901904 - Deep-Sea Coral-Sponge Community Observatory

- Met to discuss plans this year for 3 time-lapse systems and a couple upgrades (Week 4)
- Working on poster for ASLO (Week 6)
- Put together list of tasks for redeploying Smith tripods for Jim B. Going to bring the cameras back for a closer look. (Week 11)
- Helping as needed with small details on the (Week 20)
- Working on a talk for DOEST (Week 21)
- Ran a bunch of tests with the Canon R6 to determine whether we could use the remote software to focus the camera. This seemed to work but is sensitive to exact conditions- which are not well defined. So we are back to using the mechanical approach, which still requires integration and testing. (Week 25)
- Spent a lot of time with Paul and Aaron exploring the potential of the focus stage motor (Week 26)
- Also explored using the remote software control of the focus, but this puts the camera in a state that might not be reliably repeatable enough to use during deployment (Week 26)

902208 - Mini ROV Operations

- Met with vendors of WinFrog replacement software to review how new software works and could be used for the Mini (Week 2)
- Trying to figure out schedule for the year (Week 3)
- Working through scheduling issues for the year (Week 5)
- Helped troubleshoot issues with clump comms (Week 6)
- Spoke to Dale about software updates and will get started with those plans (Week 6)
- Scheduling for both the aquarium and MBARI PIs. After some false starts, I think Ian and I have a viable plan for the spring. (Week 6)
- Helping as needed with questions for the 20 ft van (Week 9)
- Trying to get ship days lined up on Fulmar (Week 9)
- (Week 9)
- Helping as needed with troubleshooting van integration including: core j-box, M3RS, and other issues (Week 10)
- Almost have both operations on the Fulmar scheduled, submitted NOAA request for Fulmar time for Giancarlo last week (Week 10)
- Checked in existing code to the git hub repo (with less problems than usual) (Week 11)
- Updating LabView and will work on modifying code to change the mod bus calls (Week 11)

- Working on updating the mod bus calls in the software, ran into an issue with libraries that Dale helped me straighten out (Week 12)
- Worked with Johann on a ground fault in the thrusters (Week 12)
- (Week 12)
- Trying to establish dates for the Fulmar (Week 14)
- Spent a little time trying to figure out why new mod bus code did not work- luckily, Johann figured it out first (Week 15)
- Working with Johan to have the plan for nav logging and remote desktop to sonardyne, and 4DNAV (Week 15)
- Prepping for next weeks dives on the Carson (Week 16)
- The Mini was deployed Tues-Thurs with good results and some fixable issues (Week 18)
- Worked with DJ to get the tracking going and displayed on 4DNAV (Week 18)
- Troubleshooting Manip comms (Week 19)
- Met with GT and team to discuss how to pack on the elements of the navigation sled to the benthic sled for the arctic cruise (Week 24)
- Worked with Johann to troubleshoot some issues with bringing the HD video signal through the Rattler into the yellowbrik mux/demux back to the topside. Lots of swapping fibers and components. We are going to try with Todd's HD signal generator and see if that helps identify if there is a problem and where the problem is. (Week 25)
- Met with Eric M to explore all the possibilities of adding GT's nav suite to the benthic sled for the arctic trip. I think there is a good plan forward. (Week 25)
- Wrote the proposal for 2025, working on budget now (Week 26)
- I went over the fiber pathway/new focal stack design with Johann. The pod is open, and the bottom side stack will be changed now. (Week 32)
- Advising Johann as needed on EPod upgrades (Week 33)
- Helped as needed with integration of new focal boards. Mostly just trying to track down why a short list of things were not working as they are supposed to. (Week 34)
- Trying to get ship scheduling finalized with the Fulmar, now that they are back online. I am waiting to hear from the Aquarium (Week 36)
- Trying to confirm days on the Fulmar, we are almost there (Week 37)
- Found coast guard training for Arctic cruise that works with our fall ship schedule (Week 37)
- Practiced flying the Mini and worked on my manipulator skills before tool sled change (Week 41)
- We finished up two weeks of operations on the Carson, demob was Friday (Week 45)
- Had two troubleshoot ground fault on 24V, looks like it was connection to the depth sensor (Week 45)
- Taking apart topside and reconfiguring for upcoming days on the Fulmar (Week 45)
- Put in po for sonardyne usbl system (Week 45)
- Spent last week finishing mob then waiting for weather to improve (Week 47)
- Once it was decided to scrub the dives due to weather we had to demob from the Fulmar and then build everything back up in the lab for the BBC video shoot during the first week of December (Week 47)
- Ordering spares (Week 47)

902401 - Geo-Sense

- Had weekly meeting, current tasks are: (Week 2)
 - Negotiating funds for Sintela NRE and terms of PO (Week 2)
 - Discussion of mechanical design of cable termination on bitter end and frame (Week 2)
 - Next step ordering batteries (Week 2)
- Worked through NRE issues with management team. Looks like we can write the PO for the DAS unit (Week 3)
- Working on POs (Week 4)
- Trying to figure out how to put connectors in existing sphere (Week 4)
- Got PO for instrument and batteries sent out (Week 5)
- Working on housing and connectors next (Week 5)
- Preparing for kickoff meeting with DAS manufacturer, also looking at housings for DAS unit, several options but each with its own issue. (Week 6)
- Spent time getting the mutual NDA form written and signed (Week 9)
- Trying to get Birns quote for cable and connector (Week 9)
- (Week 9)
- Helped Aaron on some CSEM loan agreements (Week 10)
- Collected materials for Sintela in prep for Paul and Aaron's visit (Week 10)
- Still working on getting quote from Birns for cable (Week 10)
- Collected materials for Sintela in advance on meeting this week in London (Week 11)
- More work on cables and connectors though no resolution (Week 11)
- Found two missing Ti spheres..finally!! One will become the electronics housing for the system (Week 11)
- Still trying to find cables, looked into some options based on feedback after the oceanology conference (Week 12)
- Meeting with captain andrew to discuss deployment...again (Week 12)
- Progress! We are closing in on several quotes for the cable. We had another zoom meeting to discuss specs with Winchester (formally Falmat) (Week 14)
- Also should have quote on another option for fiber connectors- one that is actually APC (angled physical connector) (Week 14)
- Met with Aaron about CSEM issues with export controls in light of next years international cruise opportunities (Week 14)
- Starting to get in cable and connector quotes, lots of communications with vendors and team. We should be able to have a cable review in two weeks. (Week 15)
- Got quote for glass sphere hard hats (Week 15)
- Trying to set date for system review (Week 15)
- All cable quotes are in hand. I am still working on the quotes for FO connectors. (Week 16)
- Scheduling design reviews (Week 16)
- Prepared slides for cable review (Week 18)
- Starting on slides for concept design review (Week 18)
- Still looking for fiber optic connectors (Week 18)
- Preparing for System review thursday (Week 19)

- Following up from review last week - collecting notes (Week 20)
- Trying to order FO penetrator this week (Week 20)
- Conference call with TMT to discuss termination of the cable (Week 20)
- Cable decision was finalized this week and PO was submitted - this is a big milestone (Week 21)
- Put together notes and slides from review to share with our collaborators (Week 21)
- (Week 21)
- We got bad news on our planned fiber optic penetrators—they are no longer available in Ti or rated for PBOF. Luckily, Brett is in Denmark and had already planned on visiting the manufacturer, so we are trying to see what we can work out. My initial search did not yield other options or better options. (Week 24)
- Read and edited Aaron's first draft of the Geo-Sense proposal and the CSEM proposal. We still need to hammer out the labor hours and milestones. (Week 24)
- Project meeting was focused on the issue of the fiber penetrator and the bitter end of the cable with relation to deploying through the sheave. (Week 24)
- Towards solving the issue of FO connectors: I finally connected with Macartney thanks to Brett's help, but their penetrator is not PBOF, and we have had bad experience with their connector, so we were despairing. Then the Ventana pilots told us about a miracle cable assembly from ISE that would probably meet all our needs. Aaron and I have a meeting with Don Muth from ISE this afternoon. Fingers crossed. (Week 25)
- Aaron and I spoke with Don Muth at ISE and I think they have a cable assembly that will allow us to go from our oil-filled j-box to the 1-atm housing, which hopefully we can get on order soon (Week 26)
- Reviewing proposal and budget (Week 26)
- Group meeting this week, trying to focus on what we can do while waiting for the long lead items (Week 31)
- Weekly meeting was tuesday, several small items to follow up on. (Week 32)
- Trying to resolve our budgetary issues (Week 36)
- Discussed alternate deployment on Rachel Carson with the team (Week 36)
- (Week 36)
- Trying to confirm delivery dates from cable manufacturer (Week 37)
- Met with Sintela last Thursday and they are on track and answered a few questions. (Week 37)
- Working on 2025 ship time (Week 37)
- Reviewed budget and ..well it could be worse (Week 37)
- Had a meeting with Winchester about issues with our armored cable, they are working on a fix (Week 40)
- Ordered our backup plan cable with Linden (Week 40)
- (Week 40)
- Spoke with Linden about cable spool and solidified plans for that (Week 41)
- Met with visiting engineer from JPL to discuss DAS (Week 41)
- (Week 45)
- Trying to push the pedal on this one. Working through details on every aspect from connectors to reviews and IP. (Week 47)

Deployed the Carson Tuesday thru Thursday

Looking through on cable designs

Mobilized the Carson Friday and Monday

Out of Office

- Was on vacation previous two weeks
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- Was in New Orleans at OSM 24 last week, presented poster on camera tripods
- Tues and Weds for medical appts
- Vacation day Friday
- Out Mon-Weds with sick kids
- Vacation Monday and Friday
- Vacation Friday
- School field trip on Tuesday
- Out on a class field trip on Weds morning
- Was on vacation 7/18-26
- On vacation Mon Aug 26-Tues Aug 27.
- Out helping with school field trip Tuesday.
- Took vacation day Friday

Overhead

- Working on self eval for review (Week 2)
- Soliciting input for EE group reviews (Week 2)
- Preparing materials and scheduling for reviews (Week 2)
- Wrote materials for and attended my performance review (Week 3)
- Collating feedback and writing EE group reviews (Week 3)
- Reading Postdoc applications (Week 3)
- Almost all this week was spent doing reviews for EE group. (Week 4)
- Completed 10 reviews and submitted them - YAY!!! (Week 5)
- Reading postdoc apps (Week 5)
- Finished reviewing postdoc files (Week 6)
- Post doc selection committee prep (Week 9)
- Design review for multi-spectral camera (Week 9)
- Post doc selection committee meeting (Week 10)
- Helped on the tours for the Packard Foundation Board of Trustees (Week 11)
- Looking into new bldg G available space as the MT start to determine a plan for populating the offices and lab spaces (Week 14)
- Met with small group to discuss new building G space (Week 15)
- Finished and submitted NSF OTIC proposal review (Week 18)
- Helped on SE hire zoom interview Tuesday (Week 21)

- Small details about open house and building G (Week 24)
- Starting proposal review (Week 31)
- Updated orcad (Week 31)
- Reading proposals- proposal review is next week. (Week 32)
- The proposal review is this week. I spent Friday and Monday reading through my remaining share. After Tuesdays discussions, I have spent Wednesday working on a labor plan to level the EE group given the Phase 1 requests. (Week 33)
- Finishing up a few loose ends on EE group labor assignments (Week 34)
- Finishing phase 1 proposal review (Week 35)
- The Engr group leads finished the second meeting for Phase 1 proposals, there was a lot to untangle between ship time and labor but there seems a viable path forward (Week 36)
- I think this was last week but we finished phase 2 review (Week 40)
- Tracked down last issues with expense, labor a (Week 40)
- Hoping to go to the Marine Imaging Workshop Thursday, and then lead a tour for them Friday morning (Week 41)
- Led tour of building G, many discussions about lab and office space (Week 47)