

Eric Martin Sorted By Project

300059 - DMO Divisional Support - David Packard

- Minor questions around PPS and PTP timing options on the new vessel. (Week 42)

300079 - DMO Divisional Support - Rachel Carson

- Discussing need for 2024 with the dorado team. (Week 23)
- Some discussions with Erik regarding 2022 plans (Week 26)
- Call with SOI's Jason Williams regarding SOI interest in licensing Dorado designs (Week 26)
- Exail meeting on INS options (Week 33)
- Meeting last week with Exail to discuss INS options (Week 34)

708167.51 - Option 3

901101 - Seafloor Mapping

- Converting PC-DAS to a linux CLI (Week 1)
- Lab cleanup (Week 2)
- Met with Chad regarding 2023 PCB work. (Week 2)
- Troubleshooting issues with the RP2040 on the trigger board (Week 6)
- Troubleshooting microcontroller issues with Chad and Mike (Week 7)
- Gutting old Reson systems (Week 9)
- Tuned into the Falkor cruise a bit. Fielding a couple questions from Erik T (Week 10)
- Chad and James are still working on another boardset rev, but will be closing up the bottle so we can be ready for deployment in May and give me time to start the kearfott driver. (Week 12)
- Lab cleanup (Week 14)
- Kearfott driver (Week 14)
- Cruise prep, lab cleanup, need to get housing closed (Week 15)
- Preparing for cruise next week. (Week 18)
- Offshore this week with the Low Altitude Sled for both David Caress and Giancarlo Troni (Week 19)
- Three offshore days on the R/V Rachel Carson last for 901101 and 902204. They were successful, albeit with shortening due to high winds. (Week 20)
- The sled made for Doc Ricketts seems to work fine for station keeping, so we can use the platform more flexibly now. (Week 20)
- 3D at depth project managment, Critical review will be in july (Week 23)
- Proposal 23 Work (Week 26)
- Coordinating the 3D at depth critical review (Week 26)
- Prepping for next week's 3D at Depth visit (Week 29)
- Call to finalize quote for phase 3 and prelim phase 4 with 3DatDepth. We are moving forward with a final proposal so that we can continue progress with the vendor. (Week 32)
- Reviewing new board stack for the Interface Can. (Week 32)
- (Week 34)
- Kearfott Driver (Week 35)
- Kearfott, Paro and DVL Drivers (Week 36)
- Helping Chad finish electronics tests (Week 36)
- Parosci Driver (Week 37)
- Kearfott Driver (Week 37)

- Interface can test & close (Week 37)
- Tank testing next week (Week 37)
- LASS software (Week 38)
- Sled Prep (Week 38)
- Lab cleanup (Week 38)
- Cruise last week was successful, which enveloped much of the week. (Week 42)
- This was a development effort that saw new features tested successfully like: (Week 42)
 - RevB LASS stack (now on the MiniROV as well) by Chad Kecz (Week 42)
 - New Navigation Driver suite by Eric Martin (Week 42)
 - New control software for the LASS stack by Mike Risi (Week 42)
- Rev C stack discussions with Chad, other power can discussions. (Week 50)

901206 - Coastal Profiling Float

- Tankside testing of sleep on anchor (Week 1)
- Polishing files generated by new sleep on anchor. (Week 2)
- Tank Testing at the end of the week. (Week 3)
- Prepped motherboard for handoff to Chad (Week 6)
- Created new test tools in the factory console mode. (Week 6)
- Tankside testing sleep features. (Week 7)
- Tankside tests wrapping up. (Week 9)
- At sea next week (Week 9)
- Lots of tank testing (Week 10)
- Tankside testing continues, with goals to get in the tank today. (Week 12)
- More Testing boggled an SD card, had to replace and will continue testing. (Week 15)
- Running tests in tank, identifying next set of bugs. (Week 18)
- Analyzed tank tests, we have periodic issues with the SD card on repeat power cyclings. (Week 19)
- Troubleshooting SDcard corruption issues, blocking the sleep on anchor feature. (Week 20)
- More tank tests are progressively addressing bugs. (Week 23)
- Made minor bugfixes and running another trial. (Week 26)
- Changeset for next tank test (Week 29)
- Feature additions for power numbers (Week 32)
- Tank tests going well. Collecting sleep data. (Week 33)
- Sleep in Anchor working, doing power calculations, assessing battery health. (Week 34)
- Merging in changes from the sleepOnAnchor feature, which is working well. (Week 35)
- Gene is working on analyzing datasets. (Week 35)
- Finished sleep on anchor, Gene in data processing mode. (Week 36)
- On hold for data analysis (Week 37)
- Another tank test has been requested, minor code changes. (Week 40)
- Prepping this week for another deployment tomorrow in the test tank. (Week 42)
- More power consumption tank tests (Week 45)
- Energy monitor changes from Gene rolled in (Week 45)
- RUDICS test setup (Week 49)
- Energy saving analysis and feature development (Week 49)
- Whittling down power requirements (Week 50)

901405 - PowerBuoy Development

- Assembling UPS board on test RaspberryPi to see how well it works. (Week 1)
- Evaluating UPS board, may need a reset button. (Week 9)
- Upgraded radar drivers for new python on upgraded ubuntu (Week 12)
- EM Cable Termination tests (Week 14)

- Replacing Yellow Cable (Week 14)
- Radar Testing (Week 14)
- Repair of the yellow cable, checking out assets (Week 15)
- Radar data collection tests (Week 15)
- Minor support on checking items out before deployment. (Week 18)
- A little look into issues with sensors on the top hat. (Week 19)
- Thinking about the tether change if any. (Week 35)

901911 - ROVVR

- Board Bullets (Week 6)
- Reviewing intern candidates (Week 7)
- Selecting interns (Week 9)
- Selected intern and will likely have Shovan from Florida here this summer (Week 10)
- Met with selected intern, and Shovan will be joining us this summer. (Week 12)
- Met with Steve and Drew to finalize Harvey Mudd Clinic proposal (Week 12)
- Lab cleanup (Week 14)
- Intern preparation (Week 14)
- Working on a plan for our intern. (Week 18)
- Prepping for our intern this summer. (Week 19)
- Improving camera driver (Week 20)
- Prepping for intern. (Week 20)
- Onboarding Shovan our new intern (Week 23)
- Intern Support (Week 26)
- Preparing for VR camera on Ventana for July 13th Haddock dives. (Week 26)
- Intern support (Week 29)
- Intern advisement, he has made great progress in integrating depth maps into the VR experience. (Week 32)
- Final presentations last week with Shovan, cleaning up the lab (Week 33)
- Proposal Feedback (Week 34)
- Getting Intern references (Week 34)
- Met with Kelly for Phase 1 feedback (Week 35)
- Help a remote Drew finalize Phase 2 feedback (Week 35)
- Harvey Mudd Clinic this Thursday (Week 35)
- Spinning up the Harvey Mudd Team (Week 36)
- HMC clinic meetings (Week 37)
- Material prep for HMC (Week 37)
- Harvey Mudd support (Week 38)
- Ventana deployment Sept 19th, got 6 hours of good data. (Week 38)
- Lab cleanup (Week 38)
- HMC advisement (Week 40)
- Data Download (Week 40)
- HMC students are coming offshore with Haddock group tomorrow. (Week 42)
- HMC mentoring meetings (Week 45)
- HMC meetings, troubleshooting their docker setup. (Week 49)
- HMC Mentorship (Week 50)

902012 - Telepresence

- Paper submitted to CSCW (ACM), collaboration with UCSC, Leila Takayama, Kakani Katija, George Matsumoto and David Caress. (Week 3)
- Wrapped up WP2 with Leila Takayama, she's going to take a break for a while until the ship needs are more clear. (Week 6)

- Our paper got accepted with major revision requests. (Week 14)
- Paper accepted with revisions! Meeting this week to discuss feedback and next steps. (Week 15)
- Performing a test next monday (Week 18)
- Supported first use of the Starlink system on the Rachel Carson, and it performed rather admirably. (Week 19)
- Tests offshore last week were successful on starlink, checking in with Kevin about site improvements. (Week 20)
- Supporting setup for telepresence next monday (Week 23)
- Paper edits continue. (Week 29)
- Tested fulltime streaming via Wowza from the RC using starlink and OBS. (Week 29)
- Meeting last week on paper status (Week 34)
- Working on writing for feedback response. (Week 34)
- Paper revision (Week 35)
- Paper edits, due october (Week 36)
- Paper writing (Week 37)
- Paper writing is nearly done, drafts due friday (Week 38)
- Prep for use next week (Week 40)
- Paper submitted. (Week 42)
- Telepresence was used during the LASS Cruise last week, and will be supporting the Haddock trip as well this week. (Week 42)
- Support last week for Greensea Testing (Week 45)

902204 - Scalable Robotics

- RRE hire work (Week 1)
- (Week 1)
- RRE Hiring reviews of submitted materials (Week 2)
- Setup PM boards, managing tasks across projects (Week 2)
- Setting up project boards in Notion (Week 3)
- RRE Hiring (Week 3)
- Mola Camera Concept (Week 3)
- RRE Interview Coordination (Week 6)
- Phone Calls with potential interns (Week 6)
- Installed USB hub and loaned IMUs from advanced navigation for evaluation. (Week 6)
- Designed internals for the TRI-AI-Camera (Week 6)
- RRE Interviewee (Week 7)
- Getting new team members George and Francois tasked. (Week 7)
- Boxfish interface emails (Week 7)
- Stereo Camera software (Week 7)
- Project meetings with intern candidates (Week 7)
- MiniROV (Week 9)
- OakD Software (Week 9)
- GiM Project management (Week 9)
- RRE hiring, last interview was today. (Week 9)
- Hiring committee (Week 10)
- Meeting with Mini group to refit sled. (Week 10)
- Reviewing GT's board presentation (Week 10)
- Documented hiring process (Week 12)
- Opened SSH hole in cart switch (Week 12)
- Submitted drawing to etechs for mini can upgrades (Week 12)
- Submitting drawings today to machine shop for Mini can upgrades (Week 12)
- Tested new oak drivers on the jetson nano, works, but is hogging CPU (Week 12)
- Reviewed Francisco's HSI drawings, helping with odds and ends there. (Week 12)

- Prep for Sprint 4 review (Week 12)
- Met with Elouan, a summer intern from Ifremer (Week 12)
- Met with Daniel, and intern candidate through MBARI internships, he has since declined. (Week 12)
- MiniROV integration (Week 14)
- Software for raspberry pi zero to control relay board and vn100 (Week 14)
- Ordering DVL (Week 14)
- Intern meetings (Week 14)
- Final prep for MiniROV expeditions, testing in tank to finalize software stack. (Week 15)
- Great success on the Fulmar, we got survey 2 out of 3 days, losing 1 to weather. (Week 18)
- Demob'd the sled this monday. (Week 18)
- See 901101, along with PM responsibilities. (Week 19)
- Offshore with 901101. (Week 20)
- DOEST Prep (Week 20)
- Mini Tank Calibration (Week 20)
- Knowledge dump from Bastián about how to run the 6DOF for DOEST and after he leaves. (Week 20)
- At ICRA with Giancarlo last week (Week 23)
- DOEST Demo was a success. (Week 23)
- 2024 Proposal writing. (Week 26)
- Maldives scoping meeting (Week 26)
- Camera housing review (Week 26)
- Paragon budget review (Week 26)
- Sprint kickoff (Week 29)
- minirov sled initial design. (Week 29)
- Paragon ASV part ordering. (Week 29)
- MiniROV Sled wiring (Week 32)
- Sprint 15 underway. Lots of work getting the sled in production. (Week 33)
- Wiring drawings (Week 33)
- PM work on 2024 budgeting. (Week 33)
- Proposal Feedback (Week 34)
- MiniSled Wiring in (Week 34)
- MiniCamera Review (Week 34)
- Topside for Mini planning (Week 34)
- Phase 2 needed major effort overhauls (Week 35)
- MiniROV Sled (Week 35)
- Supporting OAKD developments (Week 35)
- New visiting scholar this week, coordinating. (Week 35)
- Getting new IMUs online (Week 35)
- ASV payload (Week 36)
- Mini Sled chassis (Week 36)
- OSM Abstract Draft (Week 36)
- MiniROV Sled in build (Week 37)
- (Week 37)
- Working with ETs on chassis build (Week 38)
- Cable design (Week 38)
- Collected a lot of data last week, we were technically successful on SLAM and FLS exercises offshore. (Week 42)
- Out most of this week on the Fulmar, as weather keeps impacting days. (Week 45)
- EOY spending (Week 49)
- ASV help w/ George (Week 49)
- Falkor prep work. (Week 49)
- End of Year Spending (Week 50)
- Falkor planning (Week 50)

- Paragon Perception Platform (P3) bringup. (Week 50)

Out of Office

- Tuesday
- Last Tues/Wednesday
- Impacted by minimum week for kids, working ½ days M-W, will work this Friday.w
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- ICRA was last week, and on vacation 6/8-6/15
- on vacation 6/8-6/15
- on vacation 8/1-8/6
- Missed Monday due to flight delays on my return from vacation.
- Vacation 10/16 & 10/17
- Sick day on Tuesday, 11.07.2023
- Presented at URI, see EC note at the top of this report.
- Sick day on Monday 12/4 for a sick child.
- Taking off between Christmas and New Years.

Overhead

- Telepresence paper final draft for submission to ACM's CSCW is almost done. (Week 2)
- SEE Committee (Week 3)
- ME Interview (Week 6)
- SEE Interviews and meeting (Week 6)
- MiniROV Zoom and in person interviews (Week 6)
- MINIROV meetings and interview last week and this thursday (Week 7)
- SEE hiring committee (Week 7)
- Learning ROS2 basics (Week 7)
- MiniROV Job listing review (Week 9)
- SSE zoom interviews. (Week 9)
- SEESC Committee (Week 12)
- SOVA Meeting planning, Dates are May 2nd & 3rd. (Week 12)
- SEESC interviews on zoom last week. (Week 14)
- SEESC meeting tuesday. (Week 14)
- SEESC Position committee (Week 15)
- SOVA Meeting Planning (Week 15)
- SOVA meeting, went extremely well. (Week 18)
- SEESC interview (Week 18)
- SEESC hiring committee work. (Week 19)
- SOVA Meeting last week was a success, thanks to all who made it possible. (Week 19)
- SEESC hiring this thursday, meeting last week. (Week 20)
- Handed off a raspberry pi to the docking buoy project for a quick test. (Week 20)
- ICRA 2023 in London last week (Week 23)
- Precision Nav meeting (Week 26)
- MiniROV Hiring: interviewed an in-person candidate (Week 35)
- Interview last week for MIni (Week 36)
- SEE-DA resume review (Week 36)
- Interview of MiniROV candidate (Week 38)
- DMO consult with Bryan on CV for the Carson piloting (Week 38)
- SEE-EAD interview Tuesday. (Week 49)
- OES Tour help for Bill Kirkwood. (Week 50)
- SEE-EAD Zoom interviews (Week 50)

- Doc Ricketts interview for new pilot. (Week 50)