

Enoch Nicholson

Week 51

- 706008 - READI-net
 - Actuator Purchasing
 - 2024 project planning
 - Jan/Feb dock experiment coordination
- 771131 - Great Lakes PCM/HAB
- 902306 - SINKER
 - 2024 project planning
 - Hardware clean up
 - Destage SINKER
 - Weight Check
- 901205 - ESP SURF Center
- 901405 - PowerBuoy Development
- Overhead
- Out of Office
 - 12-15-23 to 01-02-24

Week 50

- 706008 - READI-net
 - Puck snap ring machining.
- 771131 - Great Lakes PCM/HAB
- 902306 - SINKER
 - Deployment preparations
- 901205 - ESP SURF Center
- 901405 - PowerBuoy Development
- Overhead
 - End of year wrap up & 2024 planning
- Out of Office
 - 12-15-23 to 01-02-24

Week 49

- 706008 - READI-net
 - Cleaning printed pucks.
- 771131 - Great Lakes PCM/HAB
- 902306 - SINKER
 - Instrument assembly & deployment preparation
- 901205 - ESP SURF Center
 - Creating calibration fixture test parts
- 901405 - PowerBuoy Development
- Overhead
- Out of Office

Week 48

- 706008 - READI-net

- Supporting puck development
- 771131 - Great Lakes PCM/HAB
- 902306 - SINKER
 - Housing & Wiper pressure testing
 - Chassis assembly
 - Wiper tank testing
- 901205 - ESP SURF Center
 - Calibration fixture design
- 901405 - PowerBuoy Development
- Overhead
- Out of Office

Week 47

- 706008 - READI-net
- 771131 - Great Lakes PCM/HAB
- 902306 - SINKER
 - Chassis Assembly
 - Housing Pressure Testing
- 901205 - ESP SURF Center
 - Heater fixture design
- 901405 - PowerBuoy Development
- Overhead
- Out of Office

Week 46

- 706008 - READI-net
 - Fixing clamp issues on the second sampler.
- 771131 - Great Lakes PCM/HAB
- 902306 - SINKER
 - Wiper Testing
 - Pressure vessel assembly
 - Chassis assembly
- 901205 - ESP SURF Center
- 901405 - PowerBuoy Development
- Overhead
- Out of Office

Week 45

- 706008 - READI-net
- 771131 - Great Lakes PCM/HAB
- 902306 - SINKER
 - Completed Interface & sediment chassis layout / fabrication drawings
- 901205 - ESP SURF Center
 - G-10 retaining ring fabrication
- 901405 - PowerBuoy Development
- Overhead
- Out of Office

Week 44

- 706008 - READI-net
 - Completed mechanical assembly of the second sampler, awaiting wiring & testing.
- 771131 - Great Lakes PCM/HAB
- 902306 - SINKER
 - Completed Sinker deployment frame assembly
 - Began finalizing Chassis design for I-Face & Sed-Cam housings
 - Finished deep wiper assembly
 - Ordered acrylic test ports
- 901205 - ESP SURF Center
 - Reassembled single board calibration fixture & returned to Brent
- 901405 - PowerBuoy Development
- Overhead
 - UAV Flight Ops (Last Week)
- Out of Office

Week 43

- 706008 - READI-net
- 771131 - Great Lakes PCM/HAB
- 902306 - SINKER
 - Completed deployment frame for December cruise & submitted work orders.
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- 901205 - ESP SURF Center
 - Cartridge heater calibration fixture testing.
- 901405 - PowerBuoy Development
- Overhead
 - ME candidate interview
- Out of Office

Week 42

- 706008 - READI-net
 - Met with Adam from USGS during OMICS meeting to discuss the current state of the sampler.
- 771131 - Great Lakes PCM/HAB
- 902306 - SINKER
 - December deployment frame design
- 901205 - ESP SURF Center
 - Connected and ran calibration fixture components. The PID controller is successfully driving heated beds.
- 901405 - PowerBuoy Development
- Overhead
- Out of Office

Week 41

- 706008 - READI-net
 - Second Sampler build
 - OMICS Meeting
- 771131 - Great Lakes PCM/HAB
- 902306 - SINKER
 - December deployment frame design

- 901205 - ESP SURF Center
 - 3G Cartridge Heater calibration fixture
- 901405 - PowerBuoy Development
- Overhead
- Out of Office

Week 40

- 706008 - READI-net
 - Sampler build and testing support
- 771131 - Great Lakes PCM/HAB
- 902306 - SINKER
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- 901405 - PowerBuoy Development
- Overhead
- Out of Office

Week 39

- 706008 - READI-net
 - Continued sampler 1 & 2 build / test
- 771131 - Great Lakes PCM/HAB
- 902306 - SINKER
- 901405 - PowerBuoy Development
- Overhead
- Out of Office

Week 38

- 706008 - READI-net
 - Prototyping sampler side plates for fluidics / electronics mounting
- 771131 - Great Lakes PCM/HAB
- 902306 - SINKER
 - Completed check of housing drawings with FC. Released and submitted final drawings to Scripps.
- 901405 - PowerBuoy Development
- Overhead
- Out of Office

Week 37

- 706008 - READI-net
 - Ordered components for a second instrument.
- 771131 - Great Lakes PCM/HAB
- 902306 - SINKER
 - Finished Housing B drawing set.
 - Quoted fabrication with Scripps.
- 901405 - PowerBuoy Development
- Overhead
- Out of Office

Week 36

- 706008 - READI-net

- Updated printed parts.
- 771131 - Great Lakes PCM/HAB
- 902306 - SINKER
 - Housing A drawing package complete & submitted.
- 901405 - PowerBuoy Development
- Overhead
 - Striver VTOL harness repair.
- Out of Office

Week 35

- 706008 - READI-net
 - Printing adjusted components to improve instrument fit.
- 771131 - Great Lakes PCM/HAB
- 902306 - SINKER
 - Drafted and submitted Housing A drawing package for peer review.
 - Built compensated wiper.
 - Added optics mount to test aquarium.
- 901405 - PowerBuoy Development
- Overhead
- Out of Office

Week 34

- 706008 - READI-net
 - Sampler prototype build & test support
- 771131 - Great Lakes PCM/HAB
- 902306 - SINKER
 - Housing detail design
- 901405 - PowerBuoy Development
- Overhead
 - UAV flight ops / observation
- Out of Office

Week 33

- 706008 - READI-net
 - Sampler prototype built & troubleshooting
- 771131 - Great Lakes PCM/HAB
- 902306 - SINKER
- 901405 - PowerBuoy Development
- Overhead
- Out of Office
 - AAUS Class

Week 32

- 706008 - READI-net
 - Purchased system components
 - Submitted drawings to the shop
- 771131 - Great Lakes PCM/HAB
- 902306 - SINKER
 - Met with wiper vendor

- Hydro wiper prototyping
- 901405 - PowerBuoy Development
- Overhead
- Out of Office
 - AAUS Class

Week 31

- 706008 - READI-net
- 771131 - Great Lakes PCM/HAB
- 902306 - SINKER
- 901405 - PowerBuoy Development
- Overhead
- Out of Office

Week 30

- 706008 - READI-net
 - Continued detailed design of the October prototype.
 - Received mechanical components.
- 771131 - Great Lakes PCM/HAB
- 902306 - SINKER
 - Revised system controller board layout.
 - Contacted glass manufacturer
 - Concept design of wiper compensator.
 - Met with Zebra Tech about deep hydro wiper.
- 901405 - PowerBuoy Development
- Overhead
- Out of Office

Week 29

- 706008 - READI-net
 - Completed instrument layout for October prototype.
 - Provided mechanical update to SURF Center.
 - Received design buy in from manufacturing.
 - Purchased COTS mechanical components.
- 771131 - Great Lakes PCM/HAB
- 902306 - SINKER
 - Completed aquarium cart.
- 901405 - PowerBuoy Development
- Overhead
- Out of Office

Week 28

- 706008 - READI-net
 - Selected actuators for October prototype, and started to finalize layout of some subsystems.
 - Drive: Combined with base plate and simplified belt / tensioning system.
 - Clamp: Switched back to C-Frame design, but made of plates.
- 771131 - Great Lakes PCM/HAB
- 902306 - SINKER
- 901405 - PowerBuoy Development

- Overhead
- Out of Office

Week 27

- 706008 - READI-net
 - October prototype system layout.
- 771131 - Great Lakes PCM/HAB
- 902306 - SINKER
 - Contacted glass manufacturer for material information.
- 901405 - PowerBuoy Development
- Overhead
- Out of Office

Week 26

- 706008 - READI-net
 - Prototype design for new drive, cylinder and clamp.
- 771131 - Great Lakes PCM/HAB
- 902306 - SINKER
 - Presented and discussed mechanical progress at our biweekly meeting.
- 901405 - PowerBuoy Development
- Overhead
- Out of Office

Week 25

- 706008 - READI-net
 - Modeling cylinder concept.
- 771131 - Great Lakes PCM/HAB
- 902306 - SINKER
 - Housing weight trade offs Ti vs Al
 - Acrylic viewport feasibility & basic design
- 901405 - PowerBuoy Development
- Overhead
- Out of Office

Week 24

- 706008 - READI-net
 - Fixed design issues with clamp to make it usable for fluidic testing.
 - Ordered pucks for testing.
 - Started conceptual layout for October Prototype.
- 771131 - Great Lakes PCM/HAB
- 902306 - SINKER
 - Completed conceptual layout of System controller.
 - Began assembling the wiper test aquarium.
 - Rachel Carson ride along to observe ROV / MARS operations.
- 901405 - PowerBuoy Development
- Overhead
- Out of Office

Week 23

- 706008 - READI-net
 - Completed DOEST prototype build.
- 771131 - Great Lakes PCM/HAB
 - Test mounted pump and phase separator.
 - Added connector to hatch.
 - Cleaned and reassembled SEATRAC for shipping.
- 902306 - SINKER
 - Ordered aquarium hardware.
 - Submitted frame drawings.
 - Continued frame design.
- 901405 - PowerBuoy Development
- Overhead
- Out of Office

Week 22

- 706008 - READI-net
 - Continued DOEST prototype assembly.
- 771131 - Great Lakes PCM/HAB
 - Mounted phase separator & pump on SEATRC with bracket.
 - Finished machining control housing. Handed it off for wiring.
- 902306 - SINKER
 - First pass at SINKER mass properties.
 - Began discussing deployment with ROV pilots.
 - PCB mechanical layout.
- 901405 - PowerBuoy Development
- Overhead
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- Out of Office

Week 21

- 706008 - READI-net
 - Waiting on machined parts.
 - Began assembly of printed components.
- 771131 - Great Lakes PCM/HAB
 - Tested 1/8" moon pool mount. Too flimsy, made out of 1/4" 5052.
 - Designed a fairing for the pump to reduce drag and deflect debris.
- 902306 - SINKER
 - Refined module board layout.
 - Began concept chassis design.
 - Continued conceptual frame model.
- 901405 - PowerBuoy Development
- Overhead
- Out of Office

Week 20

- 706008 - READI-net
 - Waiting on parts
 - Transferred CAD data to PDM Vault

- 771131 - Great Lakes PCM/HAB
 - Produced and submitted drawings for phase separator / pump mounting bracket and electrical enclosure mounting plate.
 - Built phase separator.
- 902306 - SINKER
 - Transferred CAD data to PDM Vault
 - Ordered aquarium and completed design of printed aquarium components.
 - Worked on PBC layouts: Module board and its daughter board, System Controller.
 - Began conceptual layout of SINKER frame.
- 901405 - PowerBuoy Development
- Overhead
 - Detailed notes on housing design.
- Out of Office

Week 19

- 706008 - READI-net
 - Produced and submitted machined part drawings for fab.
 - Fit checked printed parts and ordered full prototype components.
- 771131 - Great Lakes PCM/HAB
 - Mocked up mounting arrangement for phase separator, pump, and control / power housing.
- 902306 - SINKER
- 901405 - PowerBuoy Development
- Overhead
- Out of Office

Week 18

- 706008 - READI-net
 - Completed initial design of press assembly and reviewed with Mark Tynes and Scott Jensen.
- 771131 - Great Lakes PCM/HAB
 - Obtained parts for phase separator and discussed mounting plans with NOAA GLERL collaborators.
- 902306 - SINKER
 - Completed design of test aquarium and discussed with the group. Produced drawing for quote.
 - Started sketching frame ideas.
 - Obtained pinout for wiper control cable.
 - Started basic housing design using hand calcs and DSP&L Under Pressure.
- 901405 - PowerBuoy Development
 - Assisted with buoy rigging & deployment.
- Overhead
 - Proposal workshop
 - Workbench setup
 - Western Flyer screening
 - New Employee HR Training
 - Assisted with LRAUV Recovery
- Out of Office

Week 17

- 706008 - READI-net
 - Finished the prototype model for the drive and cylinder. Ordered hardware and fit check components.
 - Began designing the prototype press assembly.
- 771131 - Great Lakes PCM/HAB

- On hold awaiting discussion of priorities.
- 902306 - SINKER
 - Started conceptual design of wiper test aquarium.
- 901405 - PowerBuoy Development
- Overhead
- Out of Office

Week 16

- 706008 - READI-net
 - Modeling DOEST prototype sampler
- 771131 - Great Lakes PCM/HAB
- 902306 - SINKER
 - Disassembly of ZebraTech Hydro Wiper
 - Developing Mechanical Engineering task list
- Overhead
- Out of Office

Week 15

- 706008 - READI-net
- Overhead
- Out of Office