

Johann Voigtlander

Week 30

- 300062 - DMO Support - Doc Ricketts
- 901902 - Unoccupied Aerial Vehicles for Science, Operations and Outreach
- 902204 - Scalable Robotics
- 902208 - Mini ROV Operations
- 902312 - Seafloor Processes
- 902504 - Scalable Semantic Mapping
- 902101 - LRAUV Tech Dev & Fleet Ops
- Overhead
- Out of Office

Week 29

- 300062 - DMO Support - Doc Ricketts
- 901902 - Unoccupied Aerial Vehicles for Science, Operations and Outreach
- 902204 - Scalable Robotics
- 902208 - Mini ROV Operations
- 902312 - Seafloor Processes
 - In Italy for CSEM July 14 to 26.
- 902504 - Scalable Semantic Mapping
- 902101 - LRAUV Tech Dev & Fleet Ops
- Overhead
- Out of Office

Week 28

- 300062 - DMO Support - Doc Ricketts
- 901902 - Unoccupied Aerial Vehicles for Science, Operations and Outreach
- 902204 - Scalable Robotics
- 902208 - Mini ROV Operations
 - Installed and tested VOYIS camera on the MiniROV.
 - Fixed clump cam flickering - was a faulty SDI bulkhead
 - Made some major improvements to the new joystick console
 - Can now stream video on the network
 - Has overlay for scientists/pilots/winch operator
- 902312 - Seafloor Processes
 - Finalizing CSEM logistics in Italy.
- 902504 - Scalable Semantic Mapping
 - Reinstalled the camera on the BlueBoat

- Assisted Kent in turning the Cerulean sonar on for bench testing and to figure out how the new driver will work.
 - Tried to organize a blueboat Paragon deployment. Paragon was booked out.
- 902101 - LRAUV Tech Dev & Fleet Ops
- Overhead
- Out of Office

Week 27

- 300062 - DMO Support - Doc Ricketts
- 901902 - Unoccupied Aerial Vehicles for Science, Operations and Outreach
- 902204 - Scalable Robotics
 - Got the BlueBoat set up so Kent could work on the Cerulean sonar
- 902208 - Mini ROV Operations
 - Submitted the MiniROV 2027 proposal and budget
 - Installed Paul's stereo camera on the vehicle for testing
 - Designed and 3D printed a mount for it
 - Confirmed cable wiring and voltage
 - Sent clarification emails to Pietro in Italy
 - Had to edit the master deployment document
- 902312 - Seafloor Processes
 - Gathering bubble camera requirements from Aaron
- 902504 - Scalable Semantic Mapping
- 902101 - LRAUV Tech Dev & Fleet Ops
- Overhead
- Out of Office

Week 26

- 300062 - DMO Support - Doc Ricketts
- 901902 - Unoccupied Aerial Vehicles for Science, Operations and Outreach
- 902204 - Scalable Robotics
- 902208 - Mini ROV Operations
- 902312 - Seafloor Processes
- 902504 - Scalable Semantic Mapping
- 902101 - LRAUV Tech Dev & Fleet Ops
- Overhead
- Out of Office

Week 25

- 300062 - DMO Support - Doc Ricketts
- 901902 - Unoccupied Aerial Vehicles for Science, Operations and Outreach
- 902204 - Scalable Robotics

- Wired up and finished VN100 'mini' housing.
- Installed and secured all compas lab equipment on MiniROV
- Tested all compas lab equipment on Mini, completed a wet and dry test
- 902208 - Mini ROV Operations
- 902312 - Seafloor Processes
- 902504 - Scalable Semantic Mapping
- 902101 - LRAUV Tech Dev & Fleet Ops
- Overhead
- Out of Office

Week 24

- 300062 - DMO Support - Doc Ricketts
- 901902 - Unoccupied Aerial Vehicles for Science, Operations and Outreach
 - Visual observer for the VTOL UAV in Santa Cruz
- 902204 - Scalable Robotics
 - Blueboat harbor survey with the Cerulean Sonar
 - Set up Conch laptop with blueboat software
 - Installed Compas lab equipment on the MiniROV
- 902208 - Mini ROV Operations
 - Finished up control van wiring
 - Ordered new UPS
 - Made fixture for NAS in rack
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- 902312 - Seafloor Processes
- 902504 - Scalable Semantic Mapping
- 902101 - LRAUV Tech Dev & Fleet Ops
 - Reconfigured hovering AUV thrusters to match MOLAs thruster configuration
- Overhead
- Out of Office

Week 23

- 300062 - DMO Support - Doc Ricketts
- 901902 - Unoccupied Aerial Vehicles for Science, Operations and Outreach
- 902204 - Scalable Robotics
- Wrote up a list of potential components to use for the Mola top hat dock
- 902208 - Mini ROV Operations
- 902312 - Seafloor Processes
- 902504 - Scalable Semantic Mapping
- 902101 - LRAUV Tech Dev & Fleet Ops
- Overhead
- Out of Office

Week 22

- 300062 - DMO Support - Doc Ricketts
- 901902 - Unoccupied Aerial Vehicles for Science, Operations and Outreach
- 902204 - Scalable Robotics
- Wrote up a list of potential components to use for the Mola top hat dock
- 902208 - Mini ROV Operations
 - Completed 20' control van swap. Completely re-organized and optimized the racks so that our next swap(s) should go MUCH smoother.
 - Completed a 25 page document on MiniROV deployments, sent it to Mandy for export compliance.
 - Started installing Compas lab equipment on MiniROV
 - Got quotes on Kongsberg USBL purchase/rental
- 902312 - Seafloor Processes
- 902504 - Scalable Semantic Mapping
- 902101 - LRAUV Tech Dev & Fleet Ops
- Overhead
- Out of Office

Week 21

- 300062 - DMO Support - Doc Ricketts
- 901902 - Unoccupied Aerial Vehicles for Science, Operations and Outreach
- 902204 - Scalable Robotics
 - Improved documentation for the blueboat
- 902208 - Mini ROV Operations
 - Rewiring the MiniROV with improvements to simplify breaking down/setting up the server racks
 - Working on deployment document for Gaia Blu
- 902312 - Seafloor Processes
- 902504 - Scalable Semantic Mapping
- 902101 - LRAUV Tech Dev & Fleet Ops
 - Refurbished LRAUV battery bank
- Overhead
- Out of Office

Week 20

- 300062 - DMO Support - Doc Ricketts
- 901902 - Unoccupied Aerial Vehicles for Science, Operations and Outreach
- 902204 - Scalable Robotics
- 902208 - Mini ROV Operations
 - Started moving from 10' van to 20'
 - 3D designed and printed reinforced parts that broke (Swing arm mount, foam pack adapter)

- 3D printed CCW miniROV propeller out of resin
- 902312 - Seafloor Processes
- 902504 - Scalable Semantic Mapping
- 902101 - LRAUV Tech Dev & Fleet Ops
 - Rebuilt LRAUV battery holder
 - Designed and 3D printed DSP&L Camera mount for Tethys AUV
- Overhead
- Out of Office

Week 19

- 300062 - DMO Support - Doc Ricketts
- 901902 - Unoccupied Aerial Vehicles for Science, Operations and Outreach
- 902204 - Scalable Robotics
 - Completed Oceans 2026 blueboat poster abstract "A Compact ASV for High Resolution Bathymetric Mapping in Shallow Water"
- 902208 - Mini ROV Operations
 - 3D printed CCW thruster for the MiniROV to try counter rotating props
 - Repaired some of the oil compensation lines
 - Rebuilt the benthic expansion can after it was re-anodized
 - Ordered new tubing/zip ties
 - Made a deployment document to share with Italy
 - Frank and I ballasted and investigated ground faults in the tank. The only ground faults on the vehicle are from the thrusters which are coming from multiple thrusters but are small, ~200 all together.
- 902312 - Seafloor Processes
- 902504 - Scalable Semantic Mapping
- Overhead
- Out of Office

Week 18

- 300062 - DMO Support - Doc Ricketts
- 901902 - Unoccupied Aerial Vehicles for Science, Operations and Outreach
 - Studying for Part 107 license
- 902204 - Scalable Robotics
 - Writing BlueBoat Oceans poster abstract
- 902208 - Mini ROV Operations
 - MiniROV has been rebuilt. Frank and I placed it in the test tank and we have some thruster ground faults that we are addressing
 - Working with Justin for the new heading sensor housing
- 902312 - Seafloor Processes
 - Booking flights to Italy
- 902504 - Scalable Semantic Mapping
- Overhead

- Out of Office

Week 17

- 300062 - DMO Support - Doc Ricketts
- 901902 - Unoccupied Aerial Vehicles for Science, Operations and Outreach
- 902204 - Scalable Robotics
- 902208 - Mini ROV Operations
 - Replaced cracked manipulator arm manifolds
 - Rebuilt one USBL
 - Rebuilding the MiniROV
 - Potted cables that were damaged/cracked
- 902312 - Seafloor Processes
- 902504 - Scalable Semantic Mapping
- Overhead
- Out of Office

Week 16

- 300062 - DMO Support - Doc Ricketts
- 901902 - Unoccupied Aerial Vehicles for Science, Operations and Outreach
- 902204 - Scalable Robotics
- 902208 - Mini ROV Operations
 - Refurbishing MiniROV cables
 - Working with Susan to record a time-lapse of the miniROV rebuild
 - Cleaned connectors, changed O-rings, and general maintenance
- 902312 - Seafloor Processes
 - Working with Matt and Mandy to finalize CSEM shipment paperwork
- 902504 - Scalable Semantic Mapping
- Overhead
- Out of Office

Week 15

- 300062 - DMO Support - Doc Ricketts
- 901902 - Unoccupied Aerial Vehicles for Science, Operations and Outreach
- 902204 - Scalable Robotics
 - Forklifted some rowe packs from ESB
- 902208 - Mini ROV Operations
 - Changed the oil on the thrusters. Replaced filter board O-rings
 - Opened EPOD and moved fiber bulkhead locations. Increased RX dB by ~5
 - Tested all cables for ground faults. Inspected and cleaned the ends
- 902312 - Seafloor Processes
- 902504 - Scalable Semantic Mapping

- Overhead
- Out of Office

Week 14

- 300062 - DMO Support - Doc Ricketts
- 901902 - Unoccupied Aerial Vehicles for Science, Operations and Outreach
 - Studying for Part 107 examination
- 902204 - Scalable Robotics
 - Removed front and rear cameras from MiniROV for George
- 902208 - Mini ROV Operations
 - Ordered new 8-pin heading bulkheads for heading sensor
 - Inventoried and organized fiber cables
 - 3D printed a new tilt motor mount, cut new tilt motor tracks to tension the belt.
 - 3D modelled a new "Foam pack adapter", the front panel which holds the heading and CTD sensor. It is now much more rigid and modular.
 - Had to do some maintenance on the Prusa XL printer to print this part
 - Got VARS data transferred for Brian
 - Working with Justin on the new heading sensor housings
 - Took apart the dead Sonardyne beacon. Got a quote for a new battery for it.
- 902312 - Seafloor Processes
 - Project update on CSEM
 - Palletized CSEM shipment for Italy
- 902504 - Scalable Semantic Mapping
- Overhead
- Out of Office

Week 13

- 300062 - DMO Support - Doc Ricketts
- 901902 - Unoccupied Aerial Vehicles for Science, Operations and Outreach
- 902204 - Scalable Robotics
 - Assisted in Arctic trip packing
- 902208 - Mini ROV Operations
 - Got a quote for Sonardyne battery replacement
 - Purchased bulkheads for the new heading sensor housing
 - Camera calibration for GT's sled
 - Removed GT's sensors afterwards for his next deployment
- 902312 - Seafloor Processes
 - Working on project update presentation
- 902504 - Scalable Semantic Mapping
- Overhead

- Out of Office

Week 12

- 300062 - DMO Support - Doc Ricketts
- 901902 - Unoccupied Aerial Vehicles for Science, Operations and Outreach
- 902204 - Scalable Robotics
 - MiniROV Deployment from David Packard Mar10-17th.
 - Demobed from ship
 - Mobing at MBARI
- 902208 - Mini ROV Operations
- 902312 - Seafloor Processes
- 902504 - Scalable Semantic Mapping
- Overhead
- Out of Office

Week 11

- 300062 - DMO Support - Doc Ricketts
- 901902 - Unoccupied Aerial Vehicles for Science, Operations and Outreach
- 902204 - Scalable Robotics
- 902208 - Mini ROV Operations
 - Deploying minirov from David Packard
- 902312 - Seafloor Processes
- 902504 - Scalable Semantic Mapping
- Overhead
- Out of Office

Week 10

- 300062 - DMO Support - Doc Ricketts
- 901902 - Unoccupied Aerial Vehicles for Science, Operations and Outreach
- 902204 - Scalable Robotics
- 902208 - Mini ROV Operations
 - Mobilized MiniROV on DP
- 902312 - Seafloor Processes
 - Sent out paperwork to get the CSEM shipment back from Punta Arenas to MBARI
- 902504 - Scalable Semantic Mapping
- Overhead
- Out of Office

Week 9

- 300062 - DMO Support - Doc Ricketts
- 901902 - Unoccupied Aerial Vehicles for Science, Operations and Outreach

- 902204 - Scalable Robotics
- 902208 - Mini ROV Operations
 - Mini in TT, made up a new laser bracket, upgraded all NUCs to windows 11 which involved a lot of testing and software installation. The MiniROV system seems stable so far. Camera and laser calibrations are all done.
- 902312 - Seafloor Processes
- 902504 - Scalable Semantic Mapping
- Overhead
- Out of Office

Week 8

- 300062 - DMO Support - Doc Ricketts
- 901902 - Unoccupied Aerial Vehicles for Science, Operations and Outreach
- 902204 - Scalable Robotics
 - Gave Pushyami and Javiera a tutorial on how to use the Event Camera for their Ventana deployment
 - Uninstalled equipment from the Ventana sled to be installed on the MiniROV
- 902208 - Mini ROV Operations
 - Installed MiniROV equipment in the 10-foot control van.
 - Debugging ground faults
- 902312 - Seafloor Processes
- 902504 - Scalable Semantic Mapping
- Overhead
- Out of Office

Week 7

- 300062 - DMO Support - Doc Ricketts
- 901902 - Unoccupied Aerial Vehicles for Science, Operations and Outreach
- 902204 - Scalable Robotics
 - I created a 2-page manual for the Event Camera, which will be deployed by the Compas lab on Friday on Ventana.
- 902208 - Mini ROV Operations
 - Frank and I have been outfitting the 10-foot control van with all necessary ROV equipment. After two days of rewiring and system integration, we powered up the vehicle without any issues. While there is still significant work remaining, we are currently ahead of schedule.
- 902312 - Seafloor Processes
 - I've returned from a successful Antarctic cruise. We completed three CSEM deployments and three BlueROV dives. During each dive, we collected water samples using the Niskin bottle trigger mechanism I designed, which performed reliably.

- The equipment is currently en route back to MBARI and will then be forwarded to Europe. I've also prepared a comprehensive list of tools for Eliana to purchase, as these will remain at MBARI for future use.
- 902504 - Scalable Semantic Mapping
- Overhead
- Out of Office

Week 6

- 300062 - DMO Support - Doc Ricketts
- 901902 - Unoccupied Aerial Vehicles for Science, Operations and Outreach
- 902204 - Scalable Robotics
- 902208 - Mini ROV Operations
- 902312 - Seafloor Processes
- 902504 - Scalable Semantic Mapping
- Overhead
- Out of Office

Week 5

- 300062 - DMO Support - Doc Ricketts
- 901902 - Unoccupied Aerial Vehicles for Science, Operations and Outreach
- 902204 - Scalable Robotics
- 902208 - Mini ROV Operations
- 902312 - Seafloor Processes
- 902504 - Scalable Semantic Mapping
- Overhead
- Out of Office

Week 4

- 300062 - DMO Support - Doc Ricketts
- 901902 - Unoccupied Aerial Vehicles for Science, Operations and Outreach
- 902204 - Scalable Robotics
- 902208 - Mini ROV Operations
- 902312 - Seafloor Processes
- 902504 - Scalable Semantic Mapping
 - Csem Antarctica Jan 17 to Feb 6th
- Overhead
- Out of Office

Week 3

- 300062 - DMO Support - Doc Ricketts
- 901902 - Unoccupied Aerial Vehicles for Science, Operations and Outreach
- 902204 - Scalable Robotics

- Cleaned up the lab for the National Geographic tour
- 902208 - Mini ROV Operations
 - The A125 DVL LabVIEW integration is nearing completion.
- 902312 - Seafloor Processes
- 902504 - Scalable Semantic Mapping
- Overhead
- Out of Office
 - Dec 16th - Jan 10th - Vacation
 - May 30th - June 5th
 - Oct 9-13th

Week 2

- 300062 - DMO Support - Doc Ricketts
- 901902 - Unoccupied Aerial Vehicles for Science, Operations and Outreach
- 902204 - Scalable Robotics
 - Working with Craig from Boxfish to repair Mola 2 batteries
- 902208 - Mini ROV Operations
 - Upgraded the new NUCs to Labview 2025 32 bit.
 - Removed Datalogging and supervisory control module from copilot
 - Working on a new LabVIEW program to integrate the VN100 IMU
- 902312 - Seafloor Processes
- 902504 - Scalable Semantic Mapping
- Overhead
- Out of Office
 - Dec 16th - Jan 10th - Vacation
 - May 30th - June 5th
 - Oct 9-13th