

Mike Risi

Week 51

- 200105 - Core Navigation Data - MDUC
- 300062 - DMO Divisional Support - Doc Ricketts
- 300070 - DMO Divisional Support - Ventana
- 300079 - DMO Divisional Support - Rachel Carson
- 600034 - Precision Control Technologies for ROVs and AUVs
- 701147 - MARS O&M IV
- 701147.99 - MARS IV Node Upgrade
- 901101 - Seafloor Mapping
- 902204 - Scalable Robotics
- Overhead
- Out of Office
 - Out of office on Fridays
 - May 30 - June 6
 - August 21
 - September 5 - September 7
 - November 20 - November 23
 - December 19 - December 22
 - December 26
 - March 4 - March 8, 2024

Week 50

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Week 49

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Week 48

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Week 47

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Week 46

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Week 45

- 200105 - Core Navigation Data - MDUC
 - Implemented ROV UHS process and basic simulator based on preliminary specification from MacGregor.
 - Working on console based debugging tools for navproc messages.
- 300062 - DMO Divisional Support - Doc Ricketts
 - Working with Drew on misc. control room integration issues.
 - Looking into firmware upgrades for PT-25 pan and tilts.
- 300070 - DMO Divisional Support - Ventana
- 300079 - DMO Divisional Support - Rachel Carson
- 600034 - Precision Control Technologies for ROVs and AUVs
- 701147 - MARS O&M IV
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- 901101 - Seafloor Mapping
 - Starting to work on a new driver for Octans IX.blue format on Ventana.
 - Working with Andrew and Adriana IEEE 1588 access on David Packard.
 - Working with Chad on debugging one of the rev. b trigger board stacks.
 - Rev. b trigger board firmware changes to accommodate user configurable parameters and MAC address.
- 902204 - Scalable Robotics
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Week 44

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Week 43

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Week 42

- 200105 - Core Navigation Data - MDUC
 - Reviewed completed processes for David Packard with Kevin G.
 - Working on ROV UHS process based on preliminary specification
- 300062 - DMO Divisional Support - Doc Ricketts
 - Converted one of the Accupositioners to the ROS Helios protocol after discussions with Drew B.
 - Continuing testing and driver development for Accupositioner.
- 300070 - DMO Divisional Support - Ventana
- 300079 - DMO Divisional Support - Rachel Carson
- 600034 - Precision Control Technologies for ROVs and AUVs
- 701147 - MARS O&M IV

- 701147.99 - MARS IV Node Upgrade
- 901101 - Seafloor Mapping
 - Misc. trigger board testing and LASS MOB
 - Participated in 3 day cruise series to sponge ridge with LASS
- 902204 - Scalable Robotics
 - Support for LASS cruise series
 - Misc support and control system testing for new MiniROV sled
 - Developed application to capture stereo images from GigE cameras on MiniROV sled
 - Looking into a work around for lack of Procman support on Ubuntu 22.04 on Atuncita
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Week 41

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Week 40

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Week 39

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Week 38

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Week 37

- 200105 - Core Navigation Data - MDUC
 - Converted more processes to the Navproc Framework.
 - Developed a 4K lap-box simulator for navproc process development and testing of viewing system changes.
- 300062 - DMO Divisional Support - Doc Ricketts
 - Started libVISCA lite for ROS Accuposition pan and tilts.
 - Looking into control protocol for new down looking camera.
- 300070 - DMO Divisional Support - Ventana
- 300079 - DMO Divisional Support - Rachel Carson
- 600034 - Precision Control Technologies for ROVs and AUVs
- 701147 - MARS O&M IV
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- 901101 - Seafloor Mapping
 - Worked with Chad on in-system bring up of Trigger Board 2.0 and test.
 - Updated Trigger board GUI to accommodate new relays and trigger pulse output.

- Misc. debugging for LASS Trigger Board 2.0 firmware and update to calibration for environmental sensors.
- 902204 - Scalable Robotics
 - Working on synchronizing GigE stereo cameras using IEEE 1588 protocol.
- Overhead
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Week 36

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Week 35

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Week 34

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Week 33

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Week 32

- 200105 - Core Navigation Data - MDUC
 - Finished conversion of Doc Ricketts interface code to Navproc Framework.
 - Starting NMEA GPS and digiquartz drivers to Navproc Framework.
- 300062 - DMO Divisional Support - Doc Ricketts
 - Working on interface for new Accupositioner pan and tilt units.
 - Starting to test the interface for IMENCO down looking pan and tilt camera.
- 300070 - DMO Divisional Support - Ventana
- 300079 - DMO Divisional Support - Rachel Carson
- 600034 - Precision Control Technologies for ROVs and AUVs
- 701147 - MARS O&M IV
- 701147.99 - MARS IV Node Upgrade
- 901101 - Seafloor Mapping
 - Worked on LASS Trigger Board 2.0 bring up with Chad.
 - Finished I/O and trigger changes LASS Trigger Board 2.0 for October cruise.
 - WISSL 2.0 design review
- 902204 - Scalable Robotics
- Overhead
- Out of Office
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 - May 30 - June 6

Week 31

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- 300079 - DMO Divisional Support - Rachel Carson
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Week 30

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Week 29

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 - May 30 - June 6

Week 28

- 200105 - Core Navigation Data - MDUC
 - Finished conversion of Octans and serial interface processes to Navproc Framework.
 - Continuing conversion of Doc Ricketts interface code to Navproc Framework.

- Worked on input for the 2024 proposal.
- Looking into <https://github.com/OceanDataTools/openrvdas> for full speed data logging on the R/V David Packard.
- 300062 - DMO Divisional Support - Doc Ricketts
- 300070 - DMO Divisional Support - Ventana
- 300079 - DMO Divisional Support - Rachel Carson
- 600034 - Precision Control Technologies for ROVs and AUVs
 - Meeting to discuss the development of Real-time 3D topography model for obstacle avoidance and path planning of autonomous vehicles.
 - Worked on input for the 2024 proposal.
- 701147 - MARS O&M IV
- 701147.99 - MARS IV Node Upgrade
- 901101 - Seafloor Mapping
 - Continuing development of LASS Trigger Board 2.0 firmware when time permits.
- 902204 - Scalable Robotics
- Overhead
 - Participated in proposal related activities and meetings.
- Out of Office
 - Out of office on Fridays
 - May 30 - June 6

Week 27

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- 300062 - DMO Divisional Support - Doc Ricketts
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Week 26

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 - May 30 - June 6

Week 25

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Week 24

- 200105 - Core Navigation Data - MDUC
 - Continuing work on data acquisition for the R/V David Packard and Doc Ricketts.
 - Working on porting the Doc Ricketts interface code to use the new framework.
- 300062 - DMO Divisional Support - Doc Ricketts
 - Tested the Doc Ricketts interface code with John E. from SMD. After resolving a few small bugs everything is working and all of the changes have been committed to bitbucket.
- 300070 - DMO Divisional Support - Ventana
- 300079 - DMO Divisional Support - Rachel Carson
- 600034 - Precision Control Technologies for ROVs and AUVs
 - Meetings with Steve Rock on 2024 proposal.
- 701147 - MARS O&M IV
- 701147.99 - MARS IV Node Upgrade
- 901101 - Seafloor Mapping
 - Reviewed final schematics of the LASS trigger board 2.0 before layout.
 - Implemented test code for all of the new hardware on the trigger test board.
 - Started developing LASS trigger board 2.0 firmware.
 - Participated in a successful three day cruise series of the LASS using Ventana.
- 902204 - Scalable Robotics
 - Small changes to LCM serial bridge to accommodate message timeouts.
 - Meetings to discuss CoMPAS control system development.
- Overhead
 - Participated in multiple interviews for the Software EAD position.
- Out of Office
 - Out of office on Fridays
 - May 30 - June 6

Week 23

- 200105 - Core Navigation Data - MDUC
- 300062 - DMO Divisional Support - Doc Ricketts
- 300070 - DMO Divisional Support - Ventana
- 300079 - DMO Divisional Support - Rachel Carson
- 600034 - Precision Control Technologies for ROVs and AUVs
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- 901101 - Seafloor Mapping
- 902204 - Scalable Robotics
- Overhead
- Out of Office
 - Out of office on Fridays
 - May 30 - June 6

Week 22

- 200105 - Core Navigation Data - MDUC
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- 300079 - DMO Divisional Support - Rachel Carson
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Week 21

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Week 20

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- Overhead
- Out of Office
 - Out of office on Fridays

- May 30 - June 6

Week 19

- 200105 - Core Navigation Data - MDUC
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- 300079 - DMO Divisional Support - Rachel Carson
- 600034 - Precision Control Technologies for ROVs and AUVs
- 701147 - MARS O&M IV
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Week 18

- 200105 - Core Navigation Data - MDUC
 - The first cut of the navproc framework is done.
 - Development of the various data acquisition processes that use the framework has begun.
- 300062 - DMO Divisional Support - Doc Ricketts
 - Working on navproc interface to Doc Ricketts with SMD. Everything appears to be working fine, just chasing down one small latency issue with the external control interface.
- 300070 - DMO Divisional Support - Ventana
 - Added a process to navproc to send GPS data to the newly installed Octans gyro.
- 300079 - DMO Divisional Support - Rachel Carson
- 600034 - Precision Control Technologies for ROVs and AUVs
- 701147 - MARS O&M IV
- 701147.99 - MARS IV Node Upgrade
- 901101 - Seafloor Mapping
 - Tested the sled with Eric and Chad in preparation for the May 10-12 LASS expedition.
 - Attended design review for the LASS trigger board 2.0 design. Working with Chad on some of the changes incorporated from the review.
- 902204 - Scalable Robotics
 - Made some small changes to RovControl scripting during tank testing. A bug was discovered in the mission scripting during the April cruise series on the Fulmar that I'm looking into.
 - Added a logging directory to the frame grabber program to make it more consistent with flir-mola.
 - Modified the Octans publisher on LASS to publish the senlcm::imu_t type.
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Week 17

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- 300079 - DMO Divisional Support - Rachel Carson
- 600034 - Precision Control Technologies for ROVs and AUVs

- 701147 - MARS O&M IV
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Week 16

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- 300079 - DMO Divisional Support - Rachel Carson
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Week 15

- 200105 - Core Navigation Data - MDUC
- 300062 - DMO Divisional Support - Doc Ricketts
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- 300079 - DMO Divisional Support - Rachel Carson
- 600034 - Precision Control Technologies for ROVs and AUVs
- 701147 - MARS O&M IV
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- 901101 - Seafloor Mapping
- 902204 - Scalable Robotics
- Overhead
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 - Out of office on Fridays

Week 14

- 200105 - Core Navigation Data - MDUC
 - Working on single LCM type modifications to navroc framework
- 300062 - DMO Divisional Support - Doc Ricketts
- 300070 - DMO Divisional Support - Ventana
- 300079 - DMO Divisional Support - Rachel Carson
- 600034 - Precision Control Technologies for ROVs and AUVs
 - Changes to mwt-control to accommodate update to MiniROV status topic
- 701147 - MARS O&M IV
 - Meetings with Dave French to capture MARS operational procedures before his last day
 - Met with Duane Thompson to go over MVC environmental monitoring board
- 701147.99 - MARS IV Node Upgrade
- 901101 - Seafloor Mapping
- 902204 - Scalable Robotics

- Completed testing and modifications to WaterLinked DVL driver during tank testing
- Completed RovControl scripting and tested in tank
- Helped with Sonar logging setup on Ventana
- Tank testing of CoMPAS sled with rov-mini-intfc changes
- Overhead
- Out of Office
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Week 13

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Week 12

- 200105 - Core Navigation Data - MDUC
 - Continuing working on single LCM type modifications to framework.
 - Completed Doc Ricketts navproc interface processes for SMD visit now scheduled for April.
- 300062 - DMO Divisional Support - Doc Ricketts
- 300070 - DMO Divisional Support - Ventana
- 300079 - DMO Divisional Support - Rachel Carson
 - Helped debug issue with ships GPS after shipyard.
 - Performed navproc update after Rachel Carson returned from shipyard.
- 600034 - Precision Control Technologies for ROVs and AUVs
- 701147 - MARS O&M IV
- 701147.99 - MARS IV Node Upgrade
- 901101 - Seafloor Mapping
 - Started updating code for trigger board 2.0 prototype, looking into trigger pulse generation options for RP2040.
- 902204 - Scalable Robotics
 - Developed driver for WaterLinked A125 DVL.
 - Performed final interviews for CoMPAS RRE position.
 - Refactored lcm-mola, flir-mola and frame-grabber to accommodate LCM type changes as necessary.
 - Modified rov-mini-intfc to accommodate VectorNav AHRS and WaterLinked DVL instruments.
 - Adding scripting to RovControl for April Fulmar cruises.
- Overhead
- Out of Office
 - Out of office on Fridays

Week 11

- 200105 - Core Navigation Data - MDUC
- 300062 - DMO Divisional Support - Doc Ricketts

- 300070 - DMO Divisional Support - Ventana
- 600034 - Precision Control Technologies for ROVs and AUVs
- 701147 - MARS O&M IV
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- 901101 - Seafloor Mapping
- 902204 - Scalable Robotics
- Overhead
- Out of Office
 - Out of office on Fridays

Week 10

- 200105 - Core Navigation Data - MDUC
- 300062 - DMO Divisional Support - Doc Ricketts
- 300070 - DMO Divisional Support - Ventana
- 600034 - Precision Control Technologies for ROVs and AUVs
- 701147 - MARS O&M IV
- 701147.99 - MARS IV Node Upgrade
- 901101 - Seafloor Mapping
- 902204 - Scalable Robotics
- Overhead
- Out of Office
 - Out of office on Fridays

Week 9

- 200105 - Core Navigation Data - MDUC
 - Working on framework modifications to accommodate the single LCM type.
 - Modifying framework to eliminate direct LCM dependencies and make it more middle-ware agnostic.
 - Continuing to develop the Doc Ricketts navproc interface processes for SMD visit in March.
- 300062 - DMO Divisional Support - Doc Ricketts
 - Started looking into AccuPositioner pan and tilt protocol.
- 300070 - DMO Divisional Support - Ventana
 - Working with DJ on Octans upgrade for Ventana, will start driver development when the protocol selection has been finalized.
- 600034 - Precision Control Technologies for ROVs and AUVs
- 701147 - MARS O&M IV
- 701147.99 - MARS IV Node Upgrade
- 901101 - Seafloor Mapping
 - Worked with Chad to diagnose and hopefully fixed the lockup problem with the trigger board microcontroller.
 - Working with Chad and James on trigger board 2.0 prototype.
- 902204 - Scalable Robotics
 - Working with Kent, Giancarlo, Sebastian and Bastian to standardize CoMPAS LCM types and make them more compatible with ROS2.
 - Refactored lcm-mola, flir-mola and frame-grabber to accommodate LCM type changes as necessary.
 - Meetings and interviews for CoMPAS RRE position.
- Overhead
- Out of Office
 - Out of office on Fridays

Week 8

- 200105 - Core Navigation Data - MDUC
- 300062 - DMO Divisional Support - Doc Ricketts
- 300070 - DMO Divisional Support - Ventana
- 600034 - Precision Control Technologies for ROVs and AUVs
- 701147 - MARS O&M IV
- 701147.99 - MARS IV Node Upgrade
- 901101 - Seafloor Mapping
- 902204 - Scalable Robotics
- Overhead
- Out of Office
 - Out of office on Fridays

Week 7

- 200105 - Core Navigation Data - MDUC
- 300062 - DMO Divisional Support - Doc Ricketts
- 300070 - DMO Divisional Support - Ventana
- 600034 - Precision Control Technologies for ROVs and AUVs
- 701147 - MARS O&M IV
- 701147.99 - MARS IV Node Upgrade
- 901101 - Seafloor Mapping
- 902204 - Scalable Robotics
- Overhead
- Out of Office
 - Out of office on Fridays

Week 6

- 200105 - Core Navigation Data - MDUC
- 300062 - DMO Divisional Support - Doc Ricketts
- 300070 - DMO Divisional Support - Ventana
- 600034 - Precision Control Technologies for ROVs and AUVs
- 701147 - MARS O&M IV
- 701147.99 - MARS IV Node Upgrade
- 901101 - Seafloor Mapping
- 902204 - Scalable Robotics
- Overhead
- Out of Office
 - Out of office on Fridays

Week 5

- 200105 - Core Navigation Data - MDUC
 - Sprint meetings and reviews
 - Developing of interfaces for Doc Ricketts telemetry system upgrade
- 300062 - DMO Divisional Support - Doc Ricketts
 - Meeting for Ricketts telemetry system upgrade and preparing for SMD visit at end of February
- 300070 - DMO Divisional Support - Ventana
- 600034 - Precision Control Technologies for ROVs and AUVs
- 701147 - MARS O&M IV
- 701147.99 - MARS IV Node Upgrade

- 901101 - Seafloor Mapping
 - Trigger board 2.0 meeting
- 902204 - Scalable Robotics
 - Updating imaging logging for flir-mola
 - Installed mola update for high rate depth measurement and tested on bench
 - Porting existing mola applications to use CoMPAS LCM types new_standard_wip
 - Working on control interface for lcm-mola using CoMPAS LCM types new_standard_wip
- Overhead
- Out of Office
 - Out of office on Fridays

Week 4

- 200105 - Core Navigation Data - MDUC
- 300062 - DMO Divisional Support - Doc Ricketts
- 300070 - DMO Divisional Support - Ventana
- 600034 - Precision Control Technologies for ROVs and AUVs
- 701147 - MARS O&M IV
- 701147.99 - MARS IV Node Upgrade
- 901101 - Seafloor Mapping
- 902204 - Scalable Robotics
- Overhead
- Out of Office
 - Out of office on Fridays

Week 3

- 200105 - Core Navigation Data - MDUC
 - sprint review of single LCM type
 - starting sprint for new Doc Ricketts UDP interface
- 300062 - DMO Divisional Support - Doc Ricketts
- 300070 - DMO Divisional Support - Ventana
- 600034 - Precision Control Technologies for ROVs and AUVs
- 701147 - MARS O&M IV
 - reviewed code for MARS MVC serial monitor
- 701147.99 - MARS IV Node Upgrade
- 901101 - Seafloor Mapping
- 902204 - Scalable Robotics
 - lab kickoff meeting
 - RRE hiring committee meeting
 - started sprints for LCM types, mola control and logging all data
- Overhead
 - performance review
- Out of Office
 - Out of office on Fridays

Week 2

- 200105 - Core Navigation Data - MDUC
- 300062 - DMO Divisional Support - Doc Ricketts
- 300070 - DMO Divisional Support - Ventana
- 600034 - Precision Control Technologies for ROVs and AUVs
- 701147 - MARS O&M IV

- 701147.99 - MARS IV Node Upgrade
- 901101 - Seafloor Mapping
- 902204 - Scalable Robotics
- Overhead
- Out of Office

Week 1

- 200105 - Core Navigation Data - MDUC
- 300062 - DMO Divisional Support - Doc Ricketts
- 300070 - DMO Divisional Support - Ventana
- 600034 - Precision Control Technologies for ROVs and AUVs
- 701147 - MARS O&M IV
- 701147.99 - MARS IV Node Upgrade
- 901101 - Seafloor Mapping
- 902204 - Scalable Robotics
- Overhead
- Out of Office