

Ben Raanan

Week 52

- 300083 - DMO Support LRAUV
- 600034 - Precision Control Technologies for ROVs and AUVs
- 708168 - DHS Y7
- 901009 - CANON
- 901101 - Seafloor Mapping
- 901502 - Passive Acoustic Sensing
- 901513 - Targeted Sampling by AUVs
- 901809 - Deep Sea Bioinspiration
- 901910 - Plankton Taxonomic Groups from AUVs
- 902009 - AUV UI
- 902101 - LRAUV Technology Development and Fleet Operations
- 902102 - Multi-LRAUV Simulation Environment
- Overhead
- Out of Office
 - June 8-22

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Week 17

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 - Met with Steve to review data
- 708168 - DHS Y7
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- 902009 - AUV UI
- 902101 - LRAUV Technology Development and Fleet Operations
 - Finished bioacoustics backseat app design — working on integration
 - Debriefs for CANON/EcoHAB
 - Working on 24 v converter load control interface
- 902102 - Multi-LRAUV Simulation Environment
 - Working with the ORSC team on adding new plugins for simulating vehicle mass/VBS/DropWeight and ocean currents.
- Overhead
 - PE search
- Out of Office
 - June 8-22

Week 16

- 300083 - DMO Support LRAUV
 - On call for CANON/EcoHAB ops
- 600034 - Precision Control Technologies for ROVs and AUVs
 - Data analysis for multi-vehicle TRN data collection run at Portuguese Ledge
- 708168 - DHS Y7
- 901009 - CANON
 - CANON almost done!
- 901101 - Seafloor Mapping
- 901502 - Passive Acoustic Sensing
- 901513 - Targeted Sampling by AUVs
 - Dev/test support for Yanwu
- 901809 - Deep Sea Bioinspiration
- 901910 - Plankton Taxonomic Groups from AUVs
- 902009 - AUV UI
- 902101 - LRAUV Technology Development and Fleet Operations
 - EcoHAB!
- 902102 - Multi-LRAUV Simulation Environment
 - Successful design review for milestone 1
 - Q2 milestone 2 kickoff!
- Overhead
- Out of Office

Week 15

- 300083 - DMO Support LRAUV
 - CANON and EcoHAB ops

- 600034 - Precision Control Technologies for ROVs and AUVs
- 708168 - DHS Y7
 - Added support for water velocity data collection using DVL
- 901009 - CANON
 - Vehicle prep, planning, and operations for CANON
 - CANON is on!
- 901101 - Seafloor Mapping
- 901502 - Passive Acoustic Sensing
- 901513 - Targeted Sampling by AUVs
 - Support for EcoHAB and CANON missions
- 901809 - Deep Sea Bioinspiration
- 901910 - Plankton Taxonomic Groups from AUVs
- 902009 - AUV UI
 - Met with Leila and the team to inform the design of a battery widget for LRAUV dash
- 902101 - LRAUV Technology Development and Fleet Operations
 - Fixed segfault issues in LRAUV mission manager to enable acoustic data flow to a remote contact
 - Engineering deployment 3 vehicles — prep for CANON
 - Major edit of the biolum backseat app to modify filtering method of bathyphotometer data
- 902102 - Multi-LRAUV Simulation Environment
 - Wrapping up milestone 1 — prepping for design review
- Overhead
- Out of Office

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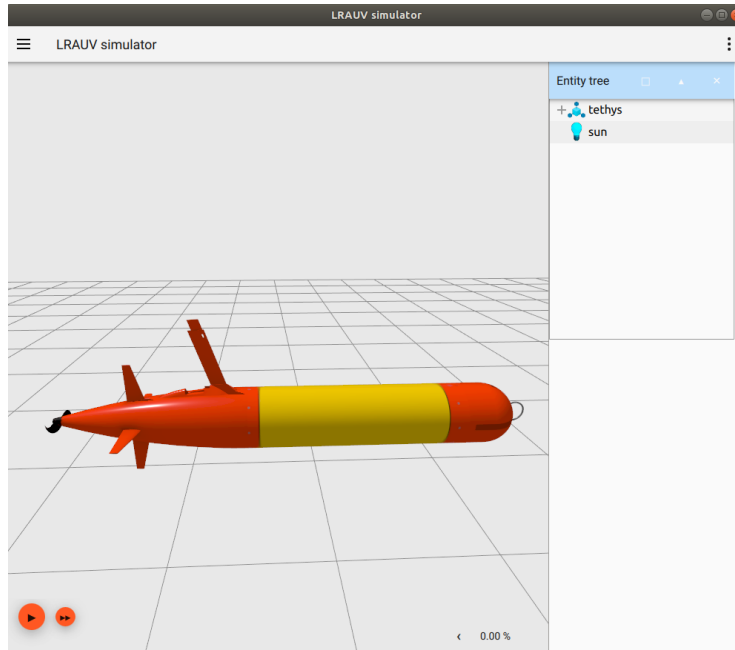
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Week 10

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- 600034 - Precision Control Technologies for ROVs and AUVs
 - Met with Steve and the team to review results from last LRAUV-TRN deployment.
- 708168 - DHS Y7
 - Analysing ProNav data from last Polaris deployment at WHOI. New ProNav guidance docking success rate is ~70%.
- 901009 - CANON
- 901101 - Seafloor Mapping
- 901502 - Passive Acoustic Sensing
 - Designed new passive acoustic monitoring mission for LRAUV.
- 901513 - Targeted Sampling by AUVs
- 901809 - Deep Sea Bioinspiration

- Implemented standalone KCF tracking node with LCM interfaces and profiled execution performance on embedded target (Jeston NX) using Nvidia Nsight.
- 901910 - Plankton Taxonomic Groups from AUVs
- 902009 - AUV UI
- 902101 - LRAUV Technology Development and Fleet Operations
 - Expanding LRAUV acoustic tracking to support tracking multiple targets.
 - Prepping backseat for JPL collaboration.
- 902102 - Multi-LRAUV Simulation Environment
 - Open Robotics team is finalizing the LRAUV <-> Ignition sim data pipeline integration and testing the vehicle and world models.
 - Started design of the LRAUV <-> Ignition sim time syncing mechanism.



- Overhead
- Out of Office

Week 9

- 300083 - DMO Support LRAUV
- 600034 - Precision Control Technologies for ROVs and AUVs
- 708168 - DHS Y7
- 901009 - CANON
- 901101 - Seafloor Mapping
- 901502 - Passive Acoustic Sensing
- 901513 - Targeted Sampling by AUVs
- 901809 - Deep Sea Bioinspiration
- 901910 - Plankton Taxonomic Groups from AUVs
- 902009 - AUV UI
- 902101 - LRAUV Technology Development and Fleet Operations
- 902102 - Multi-LRAUV Simulation Environment
- Overhead
- Out of Office

Week 8

- 300083 - DMO Support LRAUV
- 600034 - Precision Control Technologies for ROVs and AUVs

- 708168 - DHS Y7
- 901009 - CANON
- 901101 - Seafloor Mapping
- 901502 - Passive Acoustic Sensing
- 901513 - Targeted Sampling by AUVs
- 901809 - Deep Sea Bioinspiration
- 901910 - Plankton Taxonomic Groups from AUVs
- 902009 - AUV UI
- 902101 - LRAUV Technology Development and Fleet Operations
- 902102 - Multi-LRAUV Simulation Environment
- Overhead
- Out of Office

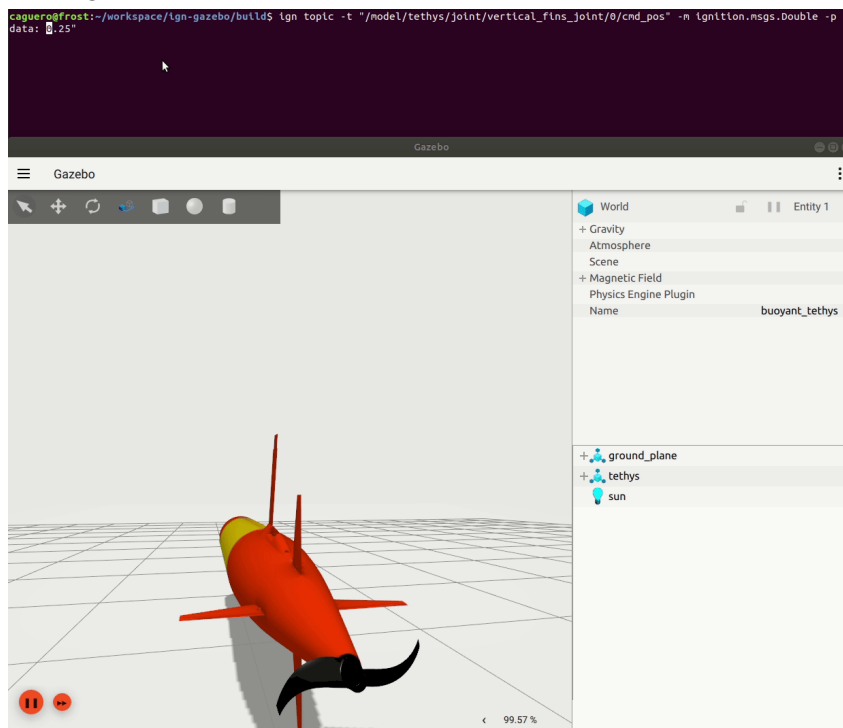
Week 7

- 300083 - DMO Support LRAUV
 - MBTS run
- 600034 - Precision Control Technologies for ROVs and AUVs
- 708168 - DHS Y7
 - Line capture testing at WHOI
- 901009 - CANON
- 901101 - Seafloor Mapping
- 901502 - Passive Acoustic Sensing
- 901513 - Targeted Sampling by AUVs
- 901809 - Deep Sea Bioinspiration
 - Profiling KCF tracker performance on Jetson Xavier-NX
- 901910 - Plankton Taxonomic Groups from AUVs
- 902009 - AUV UI
 - Met with Leila and team
- 902101 - LRAUV Technology Development and Fleet Operations
 - Daphne and Pontus deployed to sea
 - Updated LRAUV app signal handler
 - Tested AHRS M2 changes on all supported mounting orientations and at sea
 - Some minor updates to LRAUV battery controller driver in prep for new design
- 902102 - Multi-LRAUV Simulation Environment
 - Support for Ignition LRAUV vehicle model and integration
- Overhead
 - Interviewed in CalPoly podcast
- Out of Office

Week 6

- 300083 - DMO Support LRAUV
- 600034 - Precision Control Technologies for ROVs and AUVs
- 708168 - DHS Y7
 - Minor adjustments to the line capture behavior and support/planning for WHOI LRAUV team
- 901009 - CANON
- 901101 - Seafloor Mapping
- 901502 - Passive Acoustic Sensing
- 901513 - Targeted Sampling by AUVs
- 901809 - Deep Sea Bioinspiration
- 901910 - Plankton Taxonomic Groups from AUVs

- 902009 - AUV UI
- 902101 - LRAUV Technology Development and Fleet Operations
 - Support for TethysDash fixes
 - Updating LRAUV LCM pub interface for Universal data
 - Updates to AHRS driver data logging
 - Backseat prep in support of obstacle avoidance sea trials
 - Daphne and Pontus deployed to sea
- 902102 - Multi-LRAUV Simulation Environment
 - Working with Open Robotics team on LRAUV vehicle model and integration details



- Overhead
- Out of Office

Week 5

- 300083 - DMO Support LRAUV
- 600034 - Precision Control Technologies for ROVs and AUVs
- 708168 - DHS Y7
 - Analysis of Proportional Navigation guidance for line capture homing
 - Revising edge case handling in the line capture behavior
- 901009 - CANON
 - CANON/EcoHab planning
- 901101 - Seafloor Mapping
- 901502 - Passive Acoustic Sensing
 - Analyzed SoundTrap data acquired on LRAUV
- 901513 - Targeted Sampling by AUVs
- 901809 - Deep Sea Bioinspiration
- 901910 - Plankton Taxonomic Groups from AUVs
- 902009 - AUV UI
 - Met with UCSC UX team to discuss LRAUV state visualization (widget)
- 902101 - LRAUV Technology Development and Fleet Operations
 - Resolved vehicle-server data syncing issue on TethysDash
 - Met with the team to discuss TethysL next steps
 - Resolved issue SSL compatibility issue in the LRAUV app

- More work on LCM universal pub
- 902102 - Multi-LRAUV Simulation Environment
 - Planning, assembling design documents, and developing integration concepts with the team at Open Robotics
- Overhead
- Out of Office

Week 4

- 300083 - DMO Support LRAUV
- 600034 - Precision Control Technologies for ROVs and AUVs
- 708168 - DHS Y7
 - WHOI vehicle deployed for docking tests
- 901009 - CANON
- 901101 - Seafloor Mapping
- 901502 - Passive Acoustic Sensing
- 901513 - Targeted Sampling by AUVs
 - Working with Yanwu on patch tracking mission
- 901809 - Deep Sea Bioinspiration
 - Meeting with Skydio Eng. Teo Tomic
- 901910 - Plankton Taxonomic Groups from AUVs
- 902009 - AUV UI
- 902101 - LRAUV Technology Development and Fleet Operations
 - Testing updated LCM version
 - Investigating possible ballast and trim issue
 - Updates to LCM ingest in LRAUV app
 - Bioacoustics backseat app
- 902102 - Multi-LRAUV Simulation Environment
 - Working with the Open Robotics team on vehicle plugins and integration plan
 - Finalizing export details for LRAUV application source code
- Overhead
- Out of Office

Week 3

- 300083 - DMO Support LRAUV
- 600034 - Precision Control Technologies for ROVs and AUVs
- 708168 - DHS Y7
 - Data analysis of new Proportional Navigation guidance software for line capture homing
- 901009 - CANON
- 901101 - Seafloor Mapping
- 901502 - Passive Acoustic Sensing
- 901513 - Targeted Sampling by AUVs
- 901809 - Deep Sea Bioinspiration
 - LRAUV software architecture overview
 - Set up meeting with potential external collaborator
- 901910 - Plankton Taxonomic Groups from AUVs
- 902009 - AUV UI
- 902101 - LRAUV Technology Development and Fleet Operations
 - Updates and tests for LCM version upgrade
 - Updates to LCM publishers for LRAUV universal data variables
 - General software and code repository upkeep

- 902102 - Multi-LRAUV Simulation Environment
 - Project kickoff and planning
- Overhead
- Out of Office

Week 2

- 300083 - DMO Support LRAUV
- 600034 - Precision Control Technologies for ROVs and AUVs
- 708168 - DHS Y7
- 901009 - CANON
- 901101 - Seafloor Mapping
- 901502 - Passive Acoustic Sensing
- 901513 - Targeted Sampling by AUVs
- 901809 - Deep Sea Bioinspiration
- 901910 - Plankton Taxonomic Groups from AUVs
- 902009 - AUV UI
- 902101 - LRAUV Technology Development and Fleet Operations
- 902102 - Multi-LRAUV Simulation Environment
- Overhead
- Out of Office

Week 1

- 300083 - DMO Support LRAUV
- 600034 - Precision Control Technologies for ROVs and AUVs
- 708168 - DHS Y7
- 901009 - CANON
- 901101 - Seafloor Mapping
- 901502 - Passive Acoustic Sensing
- 901513 - Targeted Sampling by AUVs
- 901809 - Deep Sea Bioinspiration
- 901910 - Plankton Taxonomic Groups from AUVs
- 902009 - AUV UI
- 902101 - LRAUV Technology Development and Fleet Operations
- 902102 - Multi-LRAUV Simulation Environment
- Overhead
- Out of Office