

Paul Roberts Sorted By Project

800139 - EyeRIS (Remote Imaging System)

- Strobe assembly planning and material sourcing (Week 2)
- Opaleye software review (Week 2)
- 65 megapixel lightfield camera integration planning (Week 3)
- strobe potting materials eval (Week 3)
- documentation (Week 3)
- Ocean Science Meeting preparations (Week 5)
- Testing new revision of strobes for the LRAUV integration and getting ready for field testing (Week 12)
- Starting fabrication on 1500 m version of the LRAUV AyeRIS payload (Week 12)
- Deploying AyeRIS on LRAUV Galene for tracking tests, image transfer, and you transects (Week 23)
- Starting to ingest ROIs into RIMS database (Week 23)
- Completed revision of controller and battery pack for AyeRIS (Week 31)
- Completed ingest of ROIs into RIMS on DeepRip, speed is ~ 5000 rois/s (Week 31)
- Setting up EyeRIS for deployment to MARS next week on ROV Ventana (Week 41)
- Testing lens upgrades for wider FOV on R26 camera (Week 41)

901221 - Midwater Time Series

901809 - Deep Sea Bioinspiration

- Multicamera system interface requirements (Week 2)
- open world machine learning discussion and colab (Week 3)
- Multicamera requirements (Week 5)
- Scoping camera options (Week 5)
- Open World Object Detection advert (Week 5)
- Finalizing multicamera PoE hardware and PSU (Week 23)
- Solid model for multicamera interface can ready for review (Week 31)
- Chassis wiring schematic for multicamera interface can is ready for review (Week 31)
- Testing applications of DeepLabCut to midwater animal videos (Week 31)
- Testing subsea gigabit PoE cables and connectors using Suburban Marine Baromax (Week 41)

902001 - Ventana 4k camera

- Setup and testing of camera / lens hardware (Week 12)
- Reviewing final optical corrector design for revised MxD optics (Week 23)
- Presented 4k camera developments during DOEST (Week 23)
- Optical design for improved corrector lens is completed (Week 31)
- Submitted PO for second MxD camera housing to DSPL (Week 31)
- Revised chassis parts to accommodate new corrector optics (Week 31)
- Scoping options to upgrade lasers on Ventana (Week 41)

902004 - Planktivore

- Optical modeling of illumination system (Week 2)
- Internal chassis solid modeling and fit test (Week 3)
- strobe optics solid modeling (Week 3)

- Assembled internal chassis (Week 5)
- Flow simulations (Week 5)
- Working on revision 2 of the steering optics (Week 12)
- Ingest of ROIs into RIMS database (Week 41)

902204 - Scalable Marine Robotics Foundations

- Designing laser and LED pattern projectors for test tank platform (Week 23)
- Training on Mola vehicle operations (Week 41)
- Designing PoE j-box, camera housings, and structured light housing to fit on Mola vehicle (Week 41)

Out of Office

- 4/2 - 4/9 (spring break san diego)
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Overhead

- Performance eval materials (Week 2)