

Jon Erickson Sorted By Project

300070 - DMO Support- Ventana

- Reviewed the Vibracore swing arm for Mark T. on the Ricketts (Week 7)
- Working with Frank to have the Brackets for Ventana ready. (Week 10)
- Frank has a new "T" shaped bracket that seems to fit better. Fewer mod's. (Week 11)
- I'm trying to get to the simulation for the new Ventana light bar. (Week 28)
- Reviewing the FEA Simulation of the new light bar with Marko (Week 30)

300078 - DMO Support- AUV

300083 - DMO Support - LRAUV

701145 - Penguin Hotspots

- Did a Preliminary Design Review, and now prints, prints and more prints. (Week 5)
- Waiting for approval from the Udel people of the preliminary design. (Week 6)
- Waiting on a circuit board design to finish the interior chassis. (Week 6)
- Lots of time tied up in drafting. (Week 6)
- Waiting on the electronics (filter boards). (Week 7)
- The EK-80 electronics chassis parts are in the shop queue. (Week 9)
- Waiting on chassis parts from the shop. (Week 11)
- Finally got the ek-80 chassis parts out of the shop queue. It went together, Paul McG is putting the circuit boards on it for noise testing. (Week 28)

800139 - EyeRIS

- I'm doing FEA work for Paul on the new pressure case. (Week 5)
- The Lens extension tube is in the shop. (Week 6)
- Will Help Paul R. do a pressure test for his new extended camera housing. (Week 7)
- Aaron pressure tested the modified (lengthened) Camera Case (Week 9)
- Strobe Concept review tomorrow. (Week 14)
- Started on the light array mechanism. Six two bar linkages to separate the SeaLites from the camera. (Week 20)
- Parts and Drafting, & more Drafting. (Week 21)
- Drafting (Week 22)
- EyeRis on LRAUV - trying to fix the weights of the parts. (Week 24)
- I don't know if we'll get the EyeRis light assembly parts in time for the August cruise. (Week 28)
- Ordering parts and hardware for the light array when those parts come out of the shop. (Week 30)
- Parts and more parts. (Week 33)
- Still getting parts out of the shop for the EyeRis zoom camera. (Week 36)

800139 - EyeRIs

- Doing assembly on the light array, as parts come out of the shop. (Week 41)
- Waiting on parts. (Week 42)
- Still waiting on parts from the shop to finish the light array (Week 44)
- Finishing the light array assembly for the ROV model. (Week 46)

- The Light Array is done. Waiting on cable splicing. (Week 47)
- Finishing the Case prints for the LRAUV version Camera. (Week 47)
- Finished the prints for the EyeRis Camera Case for LRAUV. (Week 50)
- Finished the prints for the EyeRis Camera Case for LRAUV. (Week 51)

901217 - Chemical Sensor Program

- Working on Tolerance stack Issues for th EquiTech Probe. (Week 6)
- Finished a rev on the APEX equitech probes to improve the assembly precision. (3 days) (Week 7)
- ISUS-APEX assembly: Packaging all new electronics to make ISUS work on gliders for Youi, and the APEX floats. Completely new hardware, except for the probe head. ~ 14 new parts. (Week 10)
- Spending most of my time trying to fit the circuit boards into the smallest dia. possible. (Week 11)
- Spending an inordinate amount of time on the Equitech Probe changes Remote Desktop works, but is painfully slow. (Week 14)
- Parts are being farmed out to Prunella machine to take some of the load off the shop. (Week 24)
- Still trying to fit all the electronics in space in the tube. (Week 28)
- Burning thru lots of hours for the new ISUS-APEX design. Trying to reduce the in water weight. (Week 30)
- I'm burning a large amount of time on ISUS_APEX trying to achieve neutral buoyancy. (Week 31)
- Working on a tube design with Amalga Composites for ISUS-APEX. (Week 33)
- Ordering a custom mandrel and carbon fiber tube to play test for the new ISUS-APEX float assembly. Ninety percent of the design is done. (Week 41)
- I'm ready to start putting parts in the shop queue for a prototype. (Week 42)
- Have not yet received a quote from Amalga for the mandrel and tubes (Week 42)
- Now we're supporting Yui's glider work, by providing a modified version of the ISUS-APEX_2000m float design. (Week 44)
- Ordered a mandrel and one composite tube for dimension checks and pressure testing. (Week 46)
- New APEX float Spectrometer assembly parts are in the shop queue (Week 46)
- ISUS-APEX: The Carbon fiber tube and Mandrel are in fab at Amalga. (Week 47)
- ISUS-APEX: Zeiss spectrometer assembly parts are in the shop. (Week 47)
- Working on pressure test parts for Equitech probe assemblies. (Week 47)
- ISUS-APEX: waiting on spectrometer parts from the shop & circuit boards. The carbon fiber tubes are still 8 wks out. (Week 50)
- ISUS-APEX: waiting on spectrometer parts from the shop & circuit boards. The carbon fiber tubes are still 8 wks out. (Week 51)

901405 - PowerBuoy Development

- Waiting on The generator parts at the anodizers (Week 5)
- Will try to assemble the load dump case this week? (Week 5)
- Load Dump case it assembled - ready for paint or wiring. (Week 6)
- Waiting for the anodizers to deliver the Gen_V7 parts. (Week 6)
- Waiting on the platers. (Week 7)
- Gen parts are out for painting. (Week 9)
- Scott's changes seem to fit with one exception. (Week 11)

901706 - Fault Prognostication

901800 - LRAUV Payload & Support

- Bracketry for a new TriTech altimeter. (Week 9)
- Installing the single point lift for MAKAI. (Week 10)
- Working on a new altimeter mounting arrangement 20 deg. Look down. (Week 10)

- Working with Brett to get an altimeter into the nose of LRAUV that both works and fits. Latest candidate is Airmar. I'm detailing brackets so we can go to sea and play test. (Week 14)
- Putting six parts in the shop queue to mount the Airmar altimeter in the LRAUV Sipper nose. (Week 17)
- Through Brett, I'm intermittently helping with the WHOI DHS vehicle. (Week 18)
- The Airmar altimeter is going into test with Erik (Week 33)
- New larger fins for MAKAI. (Week 36)
- Bits and pieces of design modifications. (Week 44)
- Version 2 ESP-LRAUV control fins. (Week 47)
- New Bent Axis port adapters for SubConn Connectors (more wires). (Week 47)

901800.96 - Whisker Capture Box

901809 - Deep Sea Bioinspiration

- Finalizing prints for the Version 7 right angle remote laser head. (7 parts) (Week 10)
- Working on yet another version of the remote laser head. Also need a means of holding and assembling the optics head part of that. I'm two days into this, but 1/3 of my time is taken up in time lag and freezes in the remote desktop connection. I'm billing that to Dept. overhead. (Week 18)
- Finished the print package for the Version 8 remote laser head, and an assembly jig to protect the fibers during assembly. (Week 20)
- Version Version 4.2 hardware parts are in the shop (Cruise 8/14) as well as a new design for the remote head (Version 8). (Week 28)
- Mounting parts for version 4. Waiting on the remote head parts in the shop[for version 8. (Week 33)
- Still getting parts out of the shop. Assembling the Remote head assembly jig. (Week 36)
- Trying to come up with a new Particle injector pump for PIV. (Week 41)
- Have all the parts to test a new motor controller for PIV particle injector. This is Dales design, that Alana wants to use. (Week 42)
- Try to finalize a motor shaft design in order to purchase a maxon motor/gearbox assembly for the particle injector pump assembly on PIV. (Week 44)
- Still trying to select a motor gearbox assembly from Maxon for the particle injector pump. (Week 46)
- Finished motor specs for new particle injector. (Week 50)
- Part prints next week. (Week 50)
- Finished motor specs for new particle injector. (Week 51)
- Part prints next week. (Week 51)

901913 - Wet Wifi

902004 - Planktivore

902010 - Mesopelagic LRAUV

- Working on a list of functional requirements. (Week 7)
- Working on a set of Functional Requirements for the pressure tube. This would go to Amalga Composites for their N.R.E. work. (Week 9)
- Need to start on "Functional Requirements" (Week 14)
- Spending a lot of time on design options to justify sending the pressure hull design to Amalga Composites. (Week 17)
- I've got multiple concepts, but we need to generate a set of functional requirements. (Week 18)
- We have 2 preliminary designs. Working on the pros and cons. (Week 44)
- Working on a pressure case design. Will start scaling dome and shell parts to match. (Week 50)
- Working on a pressure case design. Will start scaling dome and shell parts to match. (Week 51)

Out of Office

- Vacation Day

Out of Office Vacation Day

Overhead

- I'm only getting in about six hours a day. Can't seem to do more than that. So all the balance goes to this. (Week 14)
- Reviewing Craig D. work on the Mars power can (design check, and FEA on the endcap) (Week 15)
- I'm actually getting some work done on that pressure case design tutorial! (Week 15)
- Finished the MARS DACR print check. Talking to Craig D. today to review the prints. (Week 17)
- Finished the drawing check for MARS-DACR. (Week 20)
- Learning MATLAB to develop a solution for the Mesopelagic LRAUAV. (Week 50)
- Learning MATLAB to develop a solution for the Mesopelagic LRAUAV. (Week 51)