

902106 - Niobicon-Based AUV Docking Development

Week 51

1. Francois Cazenave
 - a. Testing new elevator fin

Week 49

1. Francois Cazenave
 - a. Actuated valve upgrades
 - b. Documentation of docking systems

Week 47

1. Scott Jensen
 - a. Finally got access to Qualcomm datasheets for QCA6410. Reading and learning about the IC and how signal output power might be boosted.

Week 46

1. Francois Cazenave
 - a. Project management
2. Scott Jensen
 - a. Finally have access to QCA6410 datasheet

Week 45

1. Francois Cazenave
 - a. Photosensor installation
 - b. New AUV elevator

Week 44

1. Francois Cazenave
 - a. Photosensor testing and installation
2. Scott Jensen
 - a. Still trying to get access to datasheet, got a response today

Week 43

1. Francois Cazenave

- a. Photosensor housing assembly and test
- b. Shock proof elevators

Week 41

- 1. Francois Cazenave
 - a. Designed deflectors for LRAUV elevators
 - b. Ordering new mooring hardware

Week 40

- 1. Francois Cazenave
 - a. Photosensor
 - b. Buoy repair preparations
- 2. Scott Jensen
 - a. Still trying to gain access to the Qualcomm datasheet
- 3. Brian Kieft
 - a. Merging DAT interface file for backward compatibility. Firing up Elecia White to add the discrete set/clr functionality to DATMMP to round out the component for docking.

Week 39

- 1. Francois Cazenave
 - a. New photosensor housing design
- 2. Scott Jensen
 - a. Trying to gain access to a datasheet for the IC used in Power Of Comms on the dock

Week 38

- 1. Francois Cazenave
 - a. Photosensor design

Week 36

- 1. Francois Cazenave
 - a. Power transfer device assembly
 - b. Project management

Week 35

- 1. Francois Cazenave
 - a. Organizing lab
 - b. Project management
- 2. Scott Jensen

- a. Chasing down of a Qualcomm datasheet
- 3. Brian Kieft
 - a. Lots of docking work this week. Swapped a drop weight on pontus yesterday and got it back out.
 - b. New docking record of spending over 24 hours on the dock charging.

Week 34

- 1. Francois Cazenave
 - a. Project management

Week 33

- 1. Francois Cazenave
 - a. Assembled and tested 2nd photosensor
 - b. Project management

Week 32

- 1. Francois Cazenave
 - a. Designing new photosensor housing

Week 31

- 1. Francois Cazenave
 - a. Solve problem with photosensor
 - b. Project management
- 2. Brian Kieft
 - a. Docking was going well but the arm is having communication issues. Attempted LCB swap which worked for a little bit but then failed again. Diagnosis needed.

Week 30

- 1. Francois Cazenave
 - a. Trouble-shooting and repairing photosensor
- 2. Brian Kieft
 - a. Pontus docking has reached a milestone as of yesterday: LRAUV docked, charged, and communicated from underwater via the rod up through cell back to shore. Full dash command and control was demonstrated while the vehicle was on the dock. This opens up a vast array of new applications including event response observing and persistent presence.

Week 29

- 1. Francois Cazenave
 - a. photosensor repair

- b. Power transfer device upgrades and assembly
- c. Project management
- d. Pontus deployment

Week 28

- 1. Francois Cazenave
 - a. Wrote the proposal

Week 24

- 1. Francois Cazenave
 - a. Deployment of AUV dock

Week 23

- 1. Francois Cazenave
 - a. Preparing AUV and mooring for deployment

Week 22

- 1. Francois Cazenave
 - a. Preparing mooring for deployment
 - b. Documentation

Week 21

- 1. Francois Cazenave
 - a. Preparing AUVs and mooring for deployment
 - b. Test in the tank

Week 20

- 1. Francois Cazenave
 - a. Preparing for deployment

Week 19

- 1. Francois Cazenave
 - a. Preparing AUV and mooring for deployment

Week 18

- 1. Francois Cazenave
 - a. Assembling power transfer device
 - b. Planning deployment

Week 17

1. Francois Cazenave
 - a. Assembling Pontus
 - b. Preparing mooring

Week 16

1. Francois Cazenave
 - a. Assembling Pontus nose
 - b. Assembling niobium brushes
 - c. Planning deployment

Week 15

1. Francois Cazenave
 - a. Pontus assembly
 - b. Buoy preparations for deployment

Week 14

1. Francois Cazenave
 - a. Assembling Pontus for deployment
 - b. Ordering components for mooring
2. Brian Kieft
 - a. Worked with Rob on docking sim stuff

Week 12

1. Francois Cazenave
 - a. Assembling Pontus
2. Brian Kieft
 - a. Met with team to discuss April deployment and what needs to be done

Week 10

1. Francois Cazenave
 - a. Assembling Pontus nose
 - b. Working a Stretch hose and cable replacement

Week 9

1. Francois Cazenave
 - a. Designing brackets for LRAUV Pontus
 - b. Working on cable and hose replacement

Week 8

1. Francois Cazenave
 - a. Designing brackets for AUV Pontus
 - b. Troubleshooting failed mooring cable, clean up and disassembly

Week 7

1. Francois Cazenave
 - a. Designing bracketry for LRAUV pontus
 - b. Recover docking buoy

Week 6

1. Francois Cazenave
 - a. Designing bracketry for Pontus
 - b. Assembling Pontus
 - c. Designing new housing

Week 4

1. Francois Cazenave
 - a. Project management
2. Brian Kieft
 - a. Met with team to prepare for recovery and science deployment

Week 3

1. Francois Cazenave
 - a. Buoy troubleshooting
 - b. Latch assembly
2. Brian Kieft
 - a. Lots of docking up until this Saturday when vehicle and dock failures caused the suspension of docking tests until the mooring is recovered.

Week 2

1. Francois Cazenave
 - a. Assembling new latch

Week 1

1. Francois Cazenave
 - a. Assembling new latch mechanism