

## SubXero Team Meeting Minutes

EP 103 @ 4:00pm

9-18-2014

### Upcoming Dates:

- Sep 21 - Robsub Club meeting at WSU at 1 pm in Dana 3
- Sep 26 - Client interview due
- Oct 3 – Workshop 1 and transcript of client interview
- Oct 6 – Logbook review
- Oct 19 – Snapshot (project should be well defined by this date)

### Team Assignments:

- Portfolio will be kept by Cameron
- Budget will be done by Michael
- Client contact will be done by Chet
- Bblearn calendar will be done by Cody

### Client interview:

- Client interview should consist of Haily Holt and team leads if possible
- Interview will be somewhat informal due to the nature of our team
- Team members will talk with Haily tonight at WSU naming ceremony to set up interview time

### List of potential interview questions (Google Doc):

- What are sub strong suits/weaknesses?
- Motor or pneumatic claws?
- Course obstacles to be avoided?
- Target weight?
- Can we move things around? Space out for better balance?
- What are the AI plans?

### Data matrix ideas(Google Doc):

- Top speed
- Cruising speed
- Battery life
- Max depth
- Controls
- Z direction
- Stability
- Weight
- Response time
- Looks
- Armor for sensitive components

### Tasks for this week:

- Everyone needs to create Bblearn calendar and send link to Cody
- Shop certification will be scheduled once everyone uploads bblearn calendar.
- Brainstorm a list of items to add to Google Docs lists (Data matrix, Interview questions)
- Good logbook entry of project learning

### Extra Notes:

- Chris Pratt (former ME lead) is available for questions

- Email - [prat2932@vandals.uidaho.edu](mailto:prat2932@vandals.uidaho.edu)
- Skype name – chris.pratt.topher
- Sam (mentor)
- Contact 208-907-0919

9-25-2014

## Meeting Minutes

### Attendance:

Whole team, Mentor, Instructor

### Important Dates:

- Shop training 3:20 next Thursday Oct 2nd
- ME meeting time Tuesday morning @ 10:00am
- Oct 6 Logbook review
- Oct 11 project proposals in front of WSU group meeting
- Dec 1st purchase order lists are due

### WSU meeting last Sunday:

- Chet is to submit an ME? progress report every week to Haily
- Each team is to give an outline of project goals for the year.
- Haily started a marketing team for Robosub with intent to look for sponsors
- Haily gave deadline: Oct 11th to present projects for year.
- Pool test will change this year. Each group will have their own pool time. Sign-up in mid Oct

### Member responsibilities:

Chet - Agenda, WSU rep

Cameron -

Cody - TBD

Micheal -

Woovin -

Jeff -

Sean -

### Portfolio:

- Will be divided into team sections within categories. Ex. Project learning divided into ME, EE, CS
- Print and add project learning items to portfolio

### Week Assignments:

- Project Learning
- Shop Training next Tuesday

## Team Meeting

10/9/2014

### Attendance:

Chet, Cody, Woovin, Michael, Jeff, Sean, Cameron, Dr. Riley

### Dr. Riley - Logbook info session:

- Cross off blank spots on page
- Update table of contents

### Important Dates:

- Oct 14 Snapshot
- Oct 17 BBQ at WSU (info to come)
- Oct 31 wiki page Updates due

### Snapshot:

- Next Tuesday at 3:30 in Power Lab
- Poster coming from WSU - Chet will pick up
- Team Photo before Snapshot on Tuesday at 3:00
- Metrics Matrix (on Google Drive)

### Tasks this week:

- Personal bio of each team member - Update on Google Doc by next Tuesday

### Individual Assignments:

#### Michael:

- Google Doc for bios
- Team Logo

#### Sean/Jeff:

- Add AI section to Metrics Matrix

## Meeting Minutes

10/16/2014

Attendance: Cameron, Woovin, Jeff, Sean, Cody, Michael, Chet, Dr. Riley

### **Upcoming Deadlines:**

- Oct 28th Wiki help by appointment
- Oct 31st **DUE:** Mid-Semester Wiki-page
- Nov 10th **DUE:** Logbook Review #2

### **Progress Update:**

Hydrophone mount is almost complete, just need to buy aluminium

CS is setting up a weekly AI meeting with WSU on Tuesdays

### **Snapshot feedback:**

In the future need to send a photo/info of snapshot poster to Mike (NAVSEA Sponsor)

### **Weekly Tasking:**

Need to buy filament for 3D printer

Michael is going to contact WSU budget people about funding

All team members need to update bios on Wikipage

### **Notes:**

WSU meeting Sat at 1:00

## Meeting Minutes

Oct 23, 2014

Attendance:

Cameron, Chet, Woovin, Michael, Jeff, Sean, Dr Riley

Approaching Deadlines

- Oct 28th Wiki help by appointment
- Oct 31st **DUE:** Mid-Semester Wiki-page
- Nov 10th **DUE:** Logbook Review #2
- Nov 21st pool test

Info Sharing:

- Mike at Navsea would like to see any progress made on the sub. Send stuff to Chet who will forward.
- Cornell will be hosting webinars (good to see what the competition is up to and get ideas)

Progress:

- Chet is researching pneumatic actuators
- Jeff is working on making the robosub cross platform
- Sean is working on coding a part of the sub
- Cameron is working on PCB redesign

Weekly Assignments:

- MEs need to setup completion dates to try and get things done before end of year.
- Michael will develop a chart to bring to next ME meeting
- Need to find out about camera purchase deadline to model the enclosure
- Michael will be modeling a Robosub stand with axis rotation (possible case stand combo)
- Wiki page bio needs to be done within the week and put on google doc Jeff will create

## Meeting Minutes

10/30/2014

### Attendance:

Cameron, Sean, Michael, Woovin, Chet, Cody, Dr. Riley, Sam

### Upcoming Deadlines:

- Nov 3rd **DUE:** Mid-Semester Wiki-page
- Nov 10th **DUE:** Logbook Review #2
- Nov 12th Pool test at WSU
- Nov 3-21 **DUE:** Design review (w/client and lead instructor)
- Nov 21st **DUE:** Team member citizenship form to lead instructor by COB

### Wikipage:

- Updated Bios
- Updated project description
- Cleaned up format of page

### Progress Update:

- Camera bracket reconstruction finished
- Wikipage bios to be completed Today
- Responsibilities and Progress
  - EE
    - PCB rework
  - CS update
    -
  - ME Update
    - Claw designs and designated dimensions

### Weekly Tasking:

#### Notes:

- Bring items to add to portfolio (drawings, specs, code, project learning)
- Action Register added to Google drive

## Meeting Minutes

11-6-2014

### **Attendance:**

Chet, Cameron, Michael, Woovin, Jeff, Sean, Cody, Dr. Riley

### **Upcoming Dates:**

- Logbooks dues by end of day next Wend 12th
- Need to attend at least two other design reviews

### **Updates:**

#### **ME:**

- Sub stand – Initial design done, looking for approval by next Tuesday.
- Claws – Reworking designs
- Battery Tube – design done, will be pricing parts

#### **CS:**

- Will have something to test by the pool test
- Has nice calibration library to make adjustments
- Finished camera calibration program

#### **EE:**

- Finished the PCB redesign
- Will start working on LED feedback

### **Design Review:**

Break up into 3 sections, ME, CS, EE. Look at design review form about how to come up with info to present. Each section makes their own info session and will present in Design review session.

### **Weekly tasking:**

- Come up with design review slides for the presentation.
- Keep in mind of changes to Wiki. (update bios, rework projects)
- Chet: Schedule Design review with Haily. Email Dr. Byerline about time of our design review so he can attend
- Woovin: Talk to Haley about sub stand funding
- Michael: Get budget info from Haily



Meeting Minutes  
11-13-2014

Attendance:

Cameron, Chet, Cody, Woovin, Michael, Dr Riley

Progress Updates:

CS: Gui updating

EE: PCB creation of power cutoff circuit

ME: designing new parts

Design Review:

Possible next Tuesday at 4:00 or 5:00 or 6:00

Meet after WSU meeting on Sat.

Reference presentation outline Chet made

Each team will present projects

Michael - camera, sub stand

Cody - claw

Chet - bottom claw

Woovin - Marker dropper, solenoids/pneumatics

Cameron - PCBs

Budgeting:

Molly is holding back funds until WSU gives UI money. Michael emailed a guy who will hopefully clear up the mess.

Approaching Deadlines:

- Nov 3-21 **DUE:** Design review (w/client and lead instructor)
  - EE, CS, ME presentation update
    - what do we have so far?
  - decide upon date
    - Waiting for everyone to fill out the poll

Possible Dates Include:

11/19/14 @ 4, 5, or 6pm

- Nov 21st **DUE:** Team member citizenship form to lead instructor by COB

Weekly Tasking:

Design Review Presentation

## Meeting Minutes

11/20/2014

### Attendance:

Cameron, Chet, Cody, Woovin, Michael, Jeff, Sean, Dr Riley

### Approaching Deadlines:

- Nov 21st **DUE:** Team member citizenship form to lead instructor by COB
- Dec 2nd: GENERAL SESSION #11 - Snapshot Prep, Semester Deliverables (**AgSci 106**)
- Dec 5th: GENERAL SESSION #12 - **Snapshot Day #2 (GJ Lab 8:30-10:20)**

### Project Updates:

ME:

Finished adding the claw design to the bottom of the sub.

Budgeting - In the clear to start purchasing. Michael will get final numbers from WSU. Be frugal so we have money left for San Diego trip.

CS:

Planning meeting with WSU team.

Jeff will begin working on Dustin Crossman project.

Sean working on stereoscopic system

AI will kick off as soon as grapevine is done

EE:

Working on power cutoff switch

### Notes:

Meet up after class on the Tuesday we get back.

Keep working on the Wikipage (add pics)

## **Meeting Minutes**

**12-4-2014**

### **Attendance:**

Cameron, Chet, Cody, Woovin, Michael, Jeff, Sean, Dr Riley

### **Approaching Deadlines:**

- Snapshot tomorrow
- Wikipage Review 3:30
- End of semester deliverables:
- Logbook
- Project Portfolio
- By Sunday night have a change made to the wikipage. Email Chet to let him know that the change has been made.

### **Progress Updates:**

#### **ME:**

Sub stand modeling is done minus the calculations. Ready to order parts next tuesday

#### **CS:**

Looking into a controlled environment testing  
working on the AI modeling stuff

#### **EE:**

Reworking PBCs

### **Notes:**

- Last meeting for WSU this Saturday at 1:00pm
- Snapshot this Friday - poster should be finished by end of meeting.
- Wikipage review next Tuesday.

## **Meeting Minutes**

**12-11-2014**

**Attendance:** Cameron, Chet, Jeff, Sean, Woovin, Cody, Micheal, Dr Riley, Gary

### **Approaching Deadlines:**

- Dec 12th: Final day of 1st semester

#### **COURSE DELIVERABLES:**

- Project Portfolio (submitted to lead instructor)
- Wikipage (with notification to lead instructor and Dr. Beyerlein)

### **Progress Updates:**

#### **ME:**

Printing off the drawings and finalized bottom claw stuff.

#### **CS:**

Got program stuff working

#### **EE:**

Finishing up PCB stuff

### **Project Portfolio:**

Will be adding CS pictures and ME drawings

### **Weekly Tasking**

- Everyone:
  - Portfolio additions as discussed during meeting
  - Woovin put into action register if applicable

### **Notes:**

Anything that should be brought up with leads at WSU during officers meeting?

Cody - get price for componet to Michael by next week so he can get ordered.

## **Meeting Minutes**

### **1-22-2015**

**Attendance:** Cameron, Chet, Jeff, Sean, Woovin, Cody, Micheal, Tyler, Craig, Sam, Dr Riley

### **Approaching Deadlines:**

- Feb. 3-14th: Assign date and time for Design Review with Haily and Matt
- Feb. 17th: Logbook due with review form to lead instructor

### **Progress Updates:**

#### **ME:**

Working on waterproofing housing. Powder coating of the components.  
Sub stand parts are ordered. Almost done getting rest of parts

#### **CS:**

Working on movement

#### **EE:**

Working on finalizing all of the boards

### **Detailed Design Review:**

Tentatively scheduled for Thursday Feb 12th. 324A (ME conf Room)

### **Weekly Tasking:**

#### **Notes:**

Next week we will be starting PowerPoint construction

## **Meeting Minutes**

**1-29-2015**

**Attendance:** Cameron, Chet, Jeff, Sean, Woovin, Cody, Tyler, Craig, Dr Riley

### **Approaching Deadlines:**

- Feb. 4th: NAVSEA Sponsor will be on campus for tour. Meet at 2:30
- Feb. 12th: Detailed Design Review with Haily and Dr. Riley (4:00 pm NIATT conf room)
- Feb. 17th: Logbook due with review form to lead instructor

### **Progress Updates:**

#### **ME:**

BOM ready for camera  
Working on actuators for marker droppers  
Working on getting stuff ordered and machine time scheduled to build

#### **CS:**

Working on State logic plan  
Working on fuzzy logic stuff - dejunking  
New guys are learning

#### **EE:**

Worked with EE team at WSU to complete almost all of the PCBs.  
Power cut-off, Actuation board, Uart board, Sensor board.

### **Detailed Design Review:**

- Thursday Feb 12th. (NIATT conf Room at 4:30pm)

### **Weekly Tasking:**

- Slides for Design Review by next Wed

### **Notes:**

- Team Picture at WSU Jan 31st 1:00pm - business casual
- Need to add Tyer and Craig to Team contract
- U of I team picture after Detailed Design Review

## **Meeting Minutes**

### **SubXERO Team meeting**

**2-5-2015**

Attendance: Cameron, Chet, Michael, Cody, Sean, Jeff, Tyler, Dr. Riley

### **Progress Update**

- Group updates
  - Computer Science  
Working on Fuzzy logic module
  
  - Electrical Engineering  
BOM  
PCB work
  
  - Mechanical Engineering  
Getting parts on order

### **Detailed Design Review**

Meet next Tuesday at 3:30 in EP to finish PPT  
Review will be next Thursday at 4:30pm in NIATT

- CS/EE/ME  
What we still have left to do:

### **Design Expo Organization**

- Deadline: March 6th
- [uidaho.edu/engr/expo/expo-students](http://uidaho.edu/engr/expo/expo-students)

### **Approaching Deadlines**

- Feb. 12th: Detailed Design Review (Thursday, 4:00pm in the NIATT conference room)
- Feb. 25th: Logbook due with review form to Dr Riley
- March 10th is Snapshot

**Meeting Minutes**  
**2-12-2015**

**Detailed Design Review**

- NIATT Conference Room 4:30 pm
- All team members present



## **Meeting Minutes**

### **SubXERO Team meeting**

**2-19-2015**

Attendance: Cameron, Chet, Woovin, Jeff, Cody, Sean, Sam, Tyler, Craig

### **Progress Update**

- Group updates
  - Computer Science  
Working on Fuzzy logic. Craig doing modeling. Establishing
  - Electrical Engineering  
Working on microcontroller code.
  - Mechanical Engineering  
Cutt down a lot of weight. Working on camera housing this week. Sub frame almost done. Reorganizing sub layout.

### **Design Expo Organization**

- Deadline: March 6th
- [uidaho.edu/engr/expo/expo-student](http://uidaho.edu/engr/expo/expo-student)

### **Approaching Deadlines**

- Feb. 25th: Logbook due with review form to Dr Riley
- Design Expo registration
- March 10th is Snapshot

## **Meeting Minutes**

**2-26-2015**

**Attendance:** Cameron, Chet, Sean, Woovin, Cody, Tyler, Craig, Dr Riley

### **Approaching Deadlines:**

- team citizenship due march 5th
- Pool test march 8th
- Snapshot march 10
- Team portfolio March 10

### **Progress Updates:**

#### **ME:**

Building lots of stuff

#### **CS:**

Documentation

Working on fuzzy logic stuff

#### **EE:**

Microcontroller code.

### **Weekly Tasking:**

- Prepare for snapshot

### **Notes:**

- team portfolio
- Wiki page

## -Meeting Minutes-

SubXERO Team meeting

3-5-2015

### Progress Update

- Group updates
  - Computer Science
    - Working on fuzzy logic
  - Electrical Engineering
    - Microcontroller code libraries and organization. Soldering components
  - Mechanical Engineering
    - Building sub stand and other componets
- Responsibilities and Progress
  - Mid-Semester Snapshot coming up (3/10 during class)
    - Meet on Monday at 5:30 to work on poster
  - Team portfolio due
    - Bring portfolio items to Snapshot
  - Wiki-page
    - Try and add something this week

### Approaching Deadlines

### Weekly Tasking

- Update wiki-page
- Prep Snapshot
- Update Portfolio

### Special Notes

- Pool test Sunday March 8th

## -Meeting Minutes-

SubXERO Team meeting

3-26-2015

### Progress Update

- Group updates
  - Computer Science
    - Working on fuzzy logic
  - Electrical Engineering
    - Microcontroller code libraries and organization. Soldering microcontroller test board
  - Mechanical Engineering
    - Building sub stand and other componets

### Responsibilities and Progress

- Wiki-page
  - Try and add something this week

### Approaching Deadlines

- Logbooks will be due Wednesday the 8th of April to Dr. Riley

### Weekly Tasking

- Update wiki-page - Email Chet by Sunday with Wiki update
- Prep Snapshot
- Update Portfolio

### Special Notes

- Pool test Saturday March 28th 3:00 - 5:00
- General Meeting Sunday 1:00