### Week 12

Studio A

1. Assemble front end
2. Test with two Arduinos one far, one close
3. Testing protocol
4. UI design (talk to Emre) + read from serial testing
5. Figure out how leader sheep connects with both the follower sheep and the database
6. Brochure (probably share a doc, work on it sometime on Thursday?)

### Week 11

Studio B:

1. Front end automation (Ethan)
2. Case design + finalize Arielle
3. Read from serial, UI Emre
4. Testing procotol Tab (follow up with her)
5. Budgeting (Edwin)
6. Follow up with ta, will phone impact?

Meetingn minutes:

Studio A Agenda

1. TELS debriefs
2. Prototype physical: (Edwin)
   1. CAD update: two cases (waterproof + laptop demo) for follower sheep
   2. Same for the leader sheep collar
   3. Check the dimensions‼! It’s online
3. Electrical:
   1. Follower sheep is done with blue fruit (Arielle)
   2. Leader sheep has some problems:
      1. Cell phone replacement? Multiple UART (ask ta)
      2. GPS bluefruit tut (Ethan)
4. Backend (Emre):
   1. Could you make a folder and take screenshots of the database, explain how it works? Assume that when ta read it, they can understand
   2. Update on the manual input methods
5. Requirements + testing protocols (Tab):
   1. Modify update the requirements (refer to the proposal and the new prototype presentation slide)
   2. Make testing protocols for each requirement
   3. Arielle will also help with this

### Week 10

Studio B:

1. Lab 3
2. New budget update
3. GPS debug + bluefruit debug (we got the bluefruit UART working)

Studio A

1. Prototype update
   1. Ethan GPS, wireless (Tab)
2. Yiqun update
   1. Budget (MY wireless transmitter budget)
   2. Yiqun 3D printing
3. Emre database update
   1. TODO check with Ethan
4. Widget lab 3
   1. Read the document
   2. Report my part is not done yet
   3. Divide up the tasks
      1. Wireless...
      2. We still have time in studio B

### Week 09

Meeting 1:

GSU:

1. Question follow-up

Prototype:

1. Electrical update (MYFab order)
2. Head node design
3. Collar design set a deadline
4. Back ends need to wait until the electrical part done, do some research on implementation
5. budget update
6. Stakeholder feedbacks + new design document

Widget lab document read through

Studio A:

1. TELUS complete
2. Reflect on communication protocol
   1. Make sure everyone is present on Tuesday’s meeting
   2. Update each other/present your work during the meeting
3. Design pitch
   1. Still far, should focus on prototyping this week and the next week
4. Lab 3 kit order/lab 3 prelab
   1. Done
5. Designer’s bias, reflection

### Week 08

Studio B:

1. Widget lab circuit building
2. Widget lab functionality testing
3. Widget lab report

Studio A:

1. TELS + GSU feedback
2. Responsibility tracker update and new role distribution for phase B
3. Widget lab 2 CAD submission to MYFab

### Week 07

Working on proposal

validation

### Week 06

Meeting Saturday

Finalized conceptual design GPS/GSM

Reference projects/designs

Proposal requirements finalized/vlaues

Studio A

Agenda:

* First hour work on the requirements and conceptual designs
* Second hour converge to two conceptual designs and discuss possible combinations, diverge again
* Third maybe make a pugh chart and everyone think of designing testing protocols for their requirements.

### Week05

### Meeting4 Thursday 2022 Feb-10 3pm-4pm

Agenda:

* Continue working on the requirements and the conceptual designs
* Update process of proposal
* GSU email

### Studio A

Agenda:

* Organize the ideas according to the requirements
  + Attribute listing
* Converge once/ assess each object based on requirements
* Diverge again based on selected candidate
* Technical research
* GSU email
* Testing protocols (if we have time)

### TO DO before next meeting:

Individual research and elaborate on their ideas

PM artefacts:

1. Procurement Tracker (Yiqun)

2. Project Budget (Yiqun)

3. Collaborator Protocol /Communication Protocol (Tab)

4. Updated Meeting Agenda (Arielle)

5. Updated Meeting Minutes (Arielle)

6. Updated Schedule (Arielle)

7. Updated Risk Log (Arielle)

8. Updated Interaction Protocol (Emre)

9. Updated Support Protocol (Emre)

10. Updated Responsibility Tracker (Arielle)

11. Team Appraisal (100 words minimum) (Ethan)

### Meeting3 Tuesday 2022 Feb-08 4pm-5pm

Agenda

Design products diverge

May need to refine requirements

Technical architecture

* Brainstorm
* High level conceptual design

Proposal: Work on Proposal

Minute for this meeting

See Presentation

### Week04

### Studio A

TA feedback

* Keep the research scope broad to find unexpected issues
* Find the reasons why/ find alternatives
* Must include electric mechanical component, constraint.
* Ordering parts from MyFab also from Internet? Follow up later
* Prototype
  + follow up later
  + representation
  + highlights/convincing people it actually works/the innovation parts work

Agenda

Prep for checkin,

research update,

framing/stakeholder analysis,

GSU reply

### Meeting2 (short meeting before Studio A) 21:00-22:00 pm

Agenda

Prep for checkin,

research update,

framing/stakeholder analysis,

GSU reply

### TO DO before next meeting:

* Stakeholders follow up (Piazza + stakeholder questions): Tabitha
* Possible solutions research
  + Drone method Edwin
  + Tracker method? Arielle
  + Scanner/tagging sheep
  + Sheep facial recognition???
* Proposal write-up draft:
  + Opportunity Statement/problem statements(Provide a brief overview of the situation/context and the stakeholders.): Tabitha
  + Outline design requirements Ethan
  + Framing/rescoping (Arielle)
  + Value proposition:
    - Research: UN SDGs/Strategyzer (Emre)
      * Sustainability/green energy/reusability
      * Where do we source the materials from?
    - Research: Design for Durability: Functionally, the solution should last long (maintenance should be easy etc.) (Arielle)
    - Research: Equity:
      * Ease of learning: Edwin
      * Affordability: Tabitha
* Non-functionality research (stakeholder, the country, their culture, how they graze sheep... etc.) (everyone)

### Week 03 Meeting1 (Jan 29 1-3pm)

### Agenda:

Plan update

* Roles assignment
* PM artefect

Opportunity understanding:

Proposal handout go over:

* Three deliverables

Design scoping/requirements:

* Framing
* Requirements
* Stakeholder analysis

Research:

* More research

Stakeholder reaches out:

* How can we send the questions?

Check-In deliverable structure:

If we have time?:

Individual Brainstorm Update

Group Brainstorm

### Next meeting: Friday 19:00-21:00 IF they release the assignment

### TO DO(Before next meeting):

* Read the opportunity/assignment handout
* Opportunity here:

<https://engsci-utoronto.agorize.com/en/challenges/praxis-iii-2022-winter/pages/project-list?lang=en#sheep>

* Non-functionality research
* Individually brainstorm (come with some potential solutions) before next meeting
* Prepare for group diverge/brainstorm next meeting

# Week 03 StudioA

Opportunity the wandering sheep discussion:

[The Wandering Sheep\_Studio (padlet.com)](https://padlet.com/rubainakhan/l82qmcpicx8apct1)

Tracker

* Lagrangian method

Fence (not fenced)

* Eulerian method

Sheep marker

* Why paint are not good

Possible constraints:

* No of sheep we need to track
* Cost
* Scalability
* No collars or tags on sheep

Preventing the sheep from getting lost

Reasons:

Sat Jan 29th 13:00 – 15:00

* Finalized role assignments
* Started framing the opportunity
* Next meeting: Tues Feb 1st 20:00 – 21:00

Friday February 4th 12:00 – 13:00

First meeting with GSU

More research on local culture for money that earning

Working on analysis problem

Analyse stakeholders

Multifunction is another consideration for values

Next meeting: