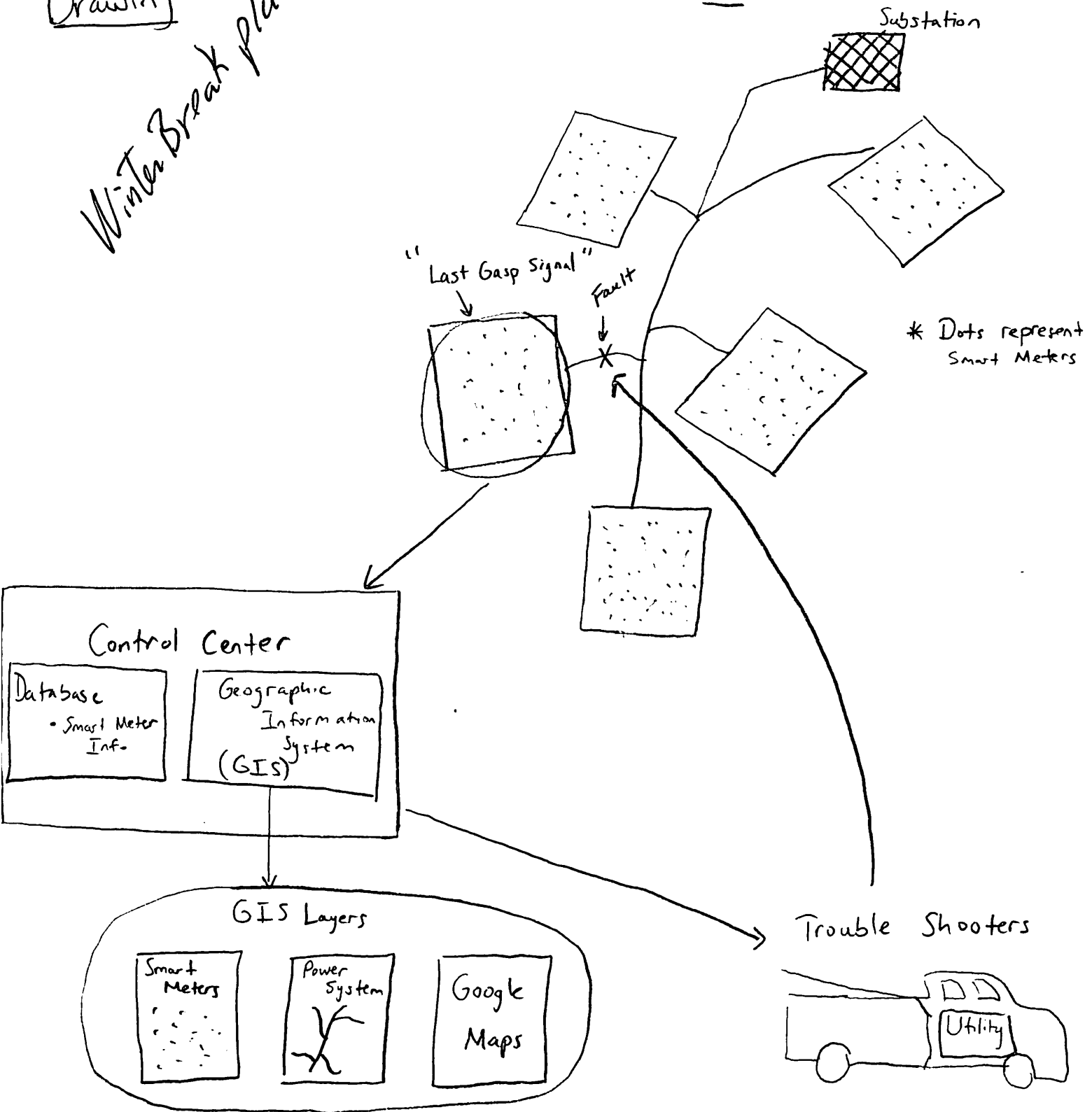


Drawing

Circuit

Winter Break Plan



11/23/11

Weekly Schedule

December 12-17

- Monday - December 12th
 - Group Meeting (Drafting Prototype)
 - Distribute Tasks amongst group
 - Set Deadlines for tasks
- Tues. - Sat. - Dec. 13th - 17th
 - work on tasks
 - Communication b/w breadboard and computer
 - Communication b/w breadboards
 - Research: Find advisor if not already

December 18-24

- Tuesday - December 20th
 - Group Meeting (Conference Call, Skype, ...)
 - Progress Updates
 - Suggestions
 - set deadlines

December 25-31

- Tuesday - December 27th
 - Group Meeting (" ")
 - Updates
 - Suggestions
 - New Tasks if needed

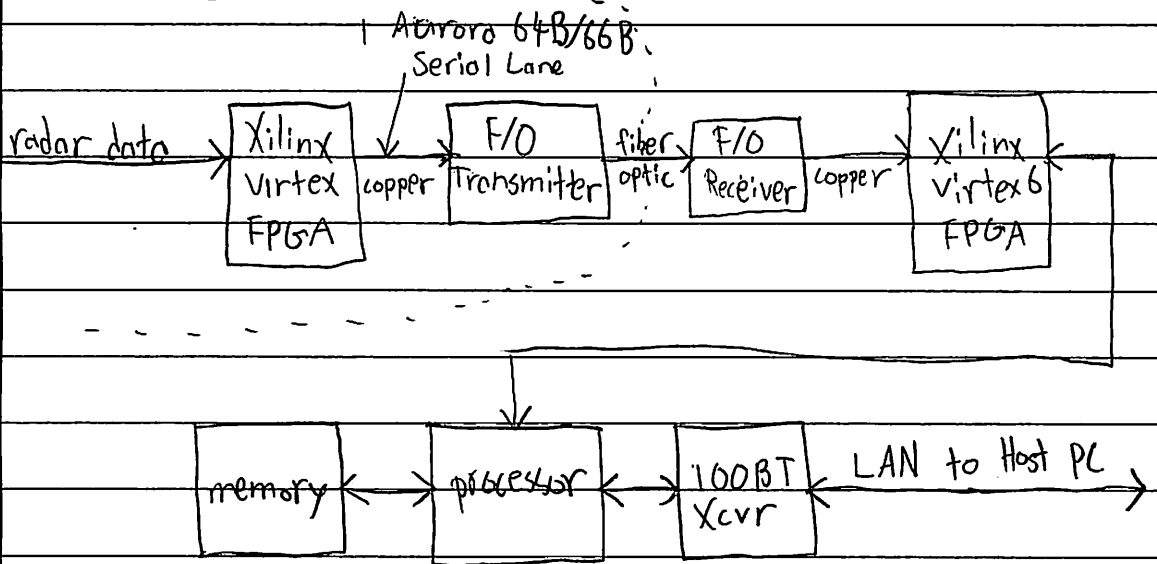
January 1-7

- Tuesday - January 3rd
 - Group Meeting (" ")
 - Finalize Prototype
 - Last Minute changes

F2E Group

Winter Break plan

Draw Product (solution, design, blueprint, model, prototype)



Plan for the Winter Break

Talk (ideally) once every day if not at least once a week.

December 12-17

Understand the speed through the system

Understand How much memory needs to be buffered

December 18-25

Learn about the Virtex FPGA

December 25-31

Learn about Aurora Protocol / L to E converter

January 1-7

Talk to Jim about what we have learned

and what more we need to know to start

implementation.

Cimoya Collins
Michelle Lilley

Winter
Break
Plan

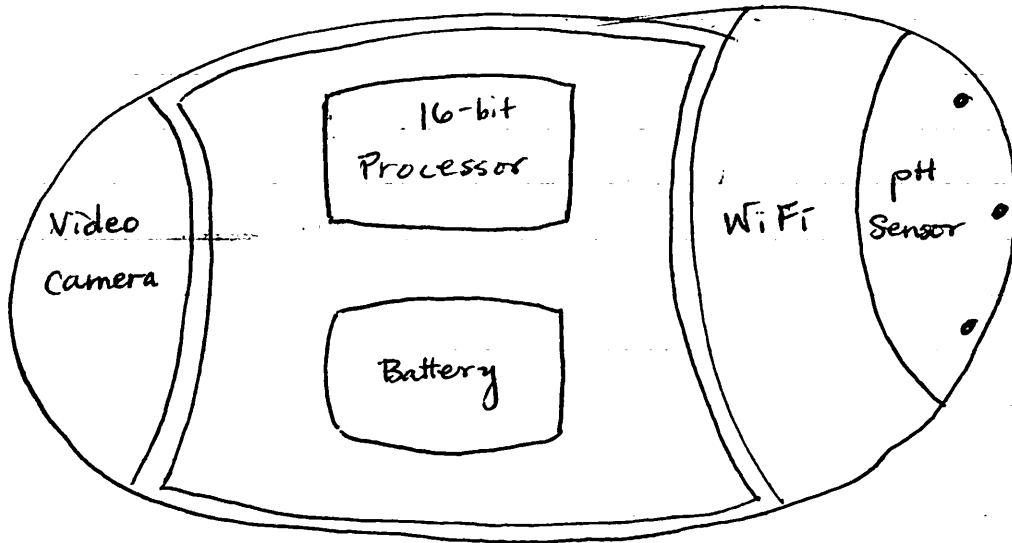
Capsule 1

Senior Design

November 23rd, 2011

(1) Draw Product

Swallowable Capsule



~~XXXXXXXXXX~~

During the Christmas break, our plan is to design a prototype of the swallowable pill.



(2) Weekly Plan

Dec. 12-17

Finalize pill prototype

Start Brainstorming cooling ideas

Finalize all details needed

Dec. 18-25

Come together via email for cooling ideas

Get together blueprint ideas for pill capsule

Get together ideas on how to build the ~~receiver~~ receiver

Dec. 25-31

Make sure were on the right track

Prepare our ideas

Jan. 1-7

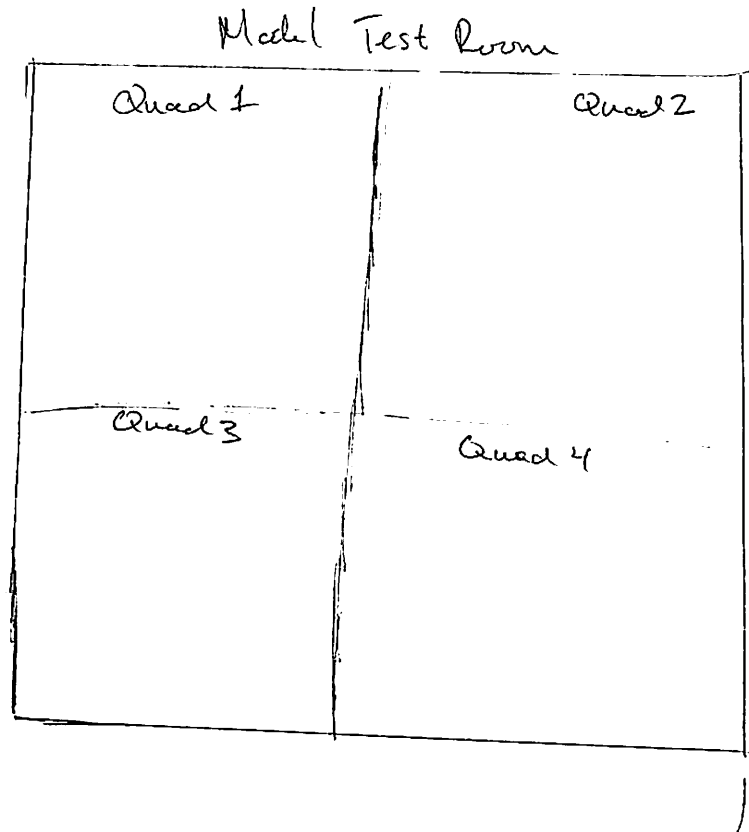
Begin finalizing our ideas for the Receiver

Prepare our mind for the following week

Production time

Intel Cup 2

Winter
Break
plan



3 Things To Complete by First Week of School

- Send out specifications for test model
- Decide on configuration of sensors
- Decide on Test Specifications
- Integrate BS2 board with ATOM board

Schedule

Dec 12-17

• Send out specifications

Dec 18-25

• Install windows on Atom board

Dec 25-31

• Decide on Test Specs

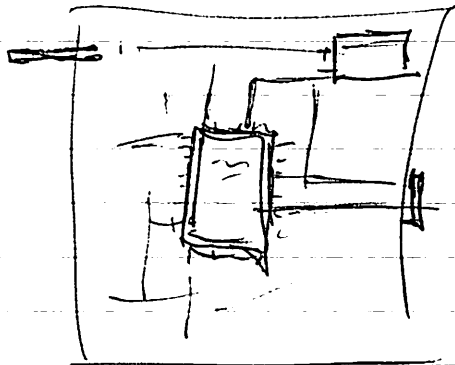
Jan 1 - 7

• Research Potential Simulation Software

Capsule II: Winter Plan

Product for Jan. 2012

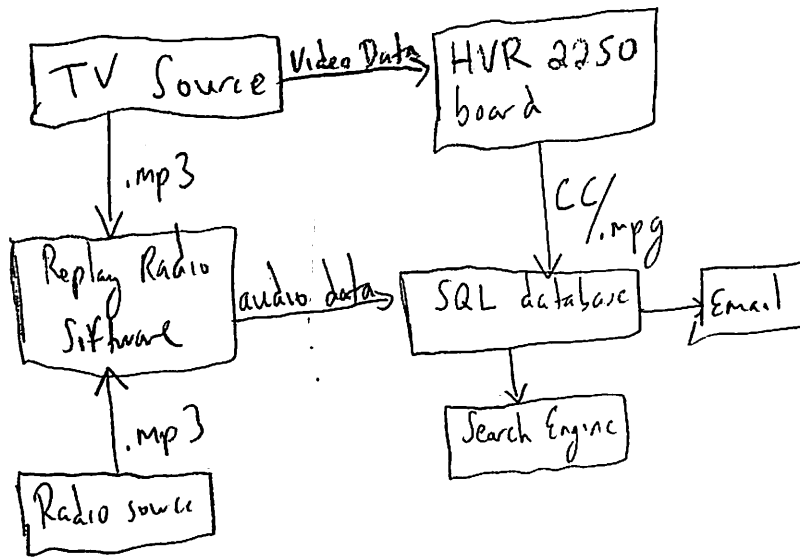
- list of components + processor to be used (and ordered).
- ~~Fig~~ Schematic of connected electrical circuit.



Timeline

- Dec. 12 - 17: • Identify microprocessor to be used in the capsule (ZigBee vs Bluetooth LE)
 - Choose proper material for capsule encasement
 - Specify sensors + camera to be used.
- Dec. 18 - 24: • Check compatibility of sensors + camera with processor.
 - Identify process for PCB manufacturing.
- Dec 25 - 31: • Draw up schematic of capsule circuit.
 - Identify receiver components.
- Jan. 1 - 7: • Specify manufacturers for sensors to be used.
 - Confirm schematic

Winter Break plan



RTV search engine

Christopher Caesar
Jonathon Murphy
Byron Beele

Dec 3rd - Dec 10th → accessing Digiclips product remotely to get sense of what they are looking for.

Dec 10th - Dec 17th → software/hardware acquisitions

Dec 17th - Dec 25th → software preliminary design

Dec 26th - Jan 6th → first attempt to integrate software w/ hardware

PLAN FOR WINTER BREAK

DRAWING: Obstacle Avoidance

⇒ Identify different obstacles: ~~different~~

* Different widths

* Different sizes & heights

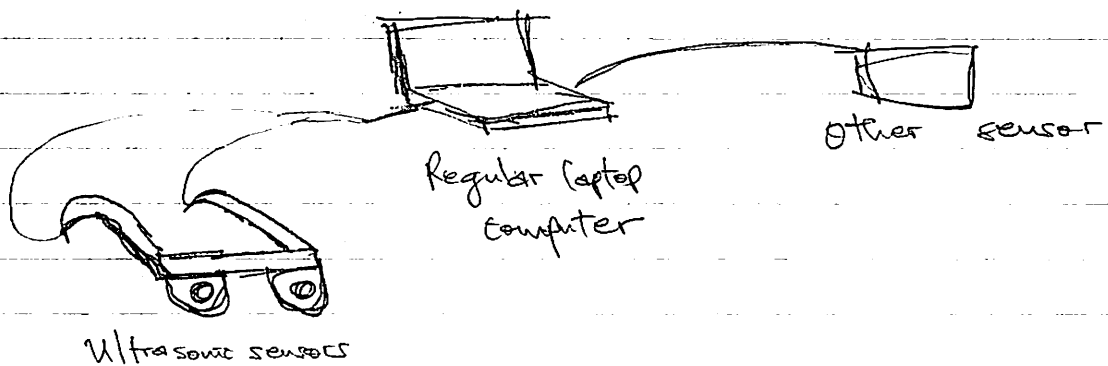
* Different type of materials

⇒ Identify nature of drop zones.

⇒ For the two above (obstacles and drop zones) determine what ~~we~~ we will use to identify obstacle & drop zone.

⇒ Buy five sensors.

⇒ ~~area~~ create algorithm and possibly code for categorizing obstacle.



~~Identify~~ Detect ~~of~~ object and categorize as obstacle or not.

WEEKLY PLAN

December 12 - 23 : Determine different obstacles
Determine nature of loop zones.

December 23 - 30 : Determine necessary sensors
and alternate sensors and
purchase them.
Order vibrating modules.

January 1 - 9

Test sensor to ensure we are receiving
data.

Test vibrating modules for different
vibrations.

Using simple laptop.