Final Presentation

Team Avocado
Weatherbox
(EE 296)

Mentor:
Kenneth Lauritzen

Overview

- Project Background & Motivation
- Project Goal
- Overall Block Diagram
- Status of Project
- Schematic & PCB Layout
- Code
- Remaining Problems
- Future Improvements

Project Background & Motivation

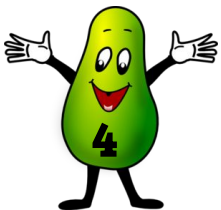
Design a weatherbox that is:

- Cheap
- Durable
- Efficient
- Accurate in gathering data

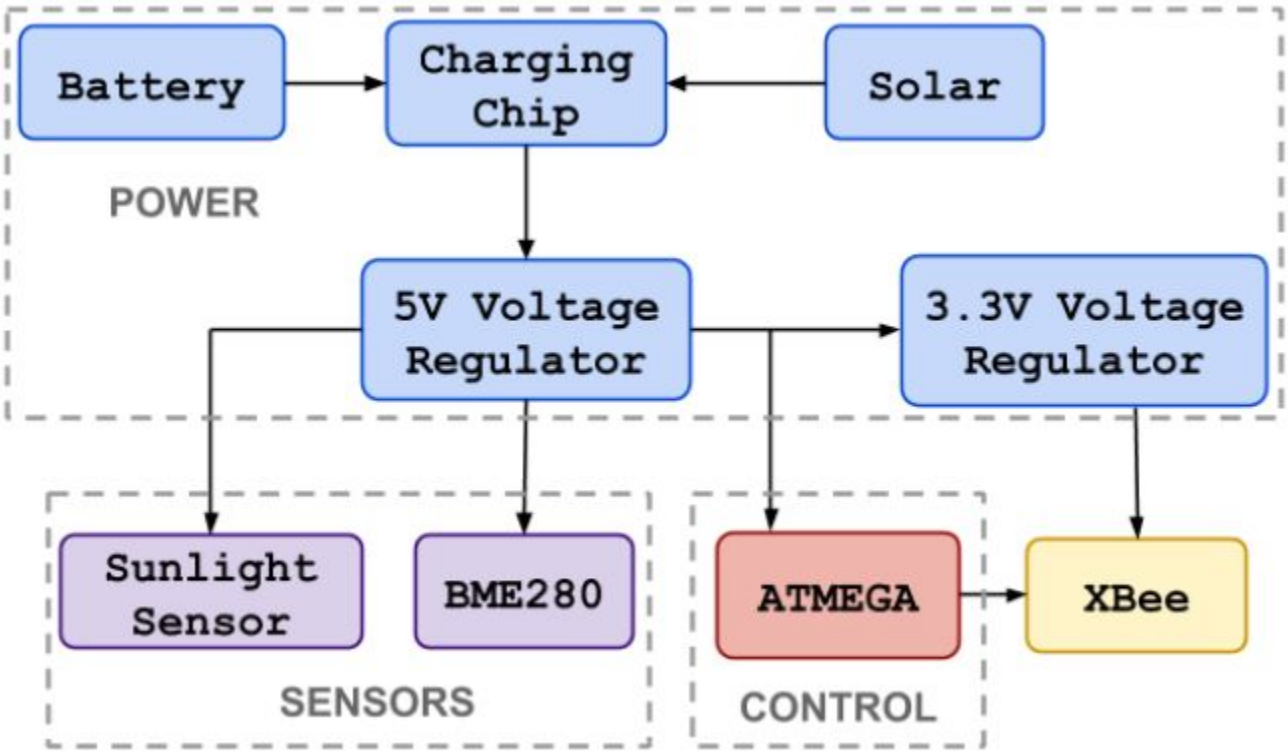
Data gathered will be used to assist in planning future renewable energy installation around UH campus.

Project Goal

- Build the weatherbox device
- Design and finalize PCB
- Software
- Last for two nights

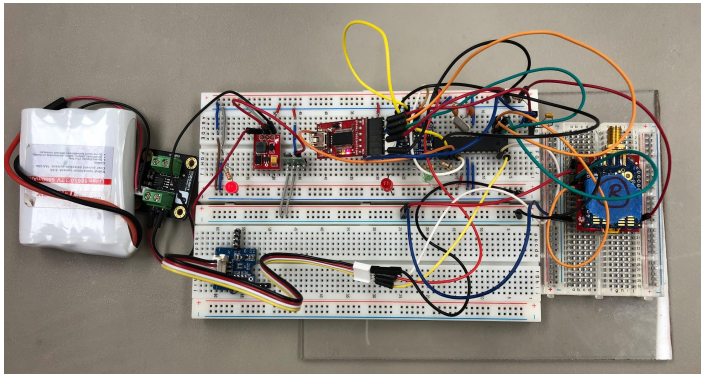


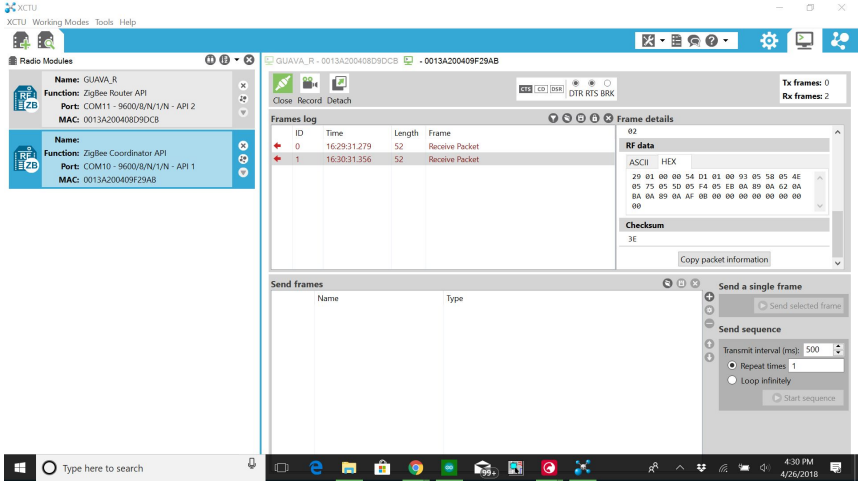
Overall Block Diagram



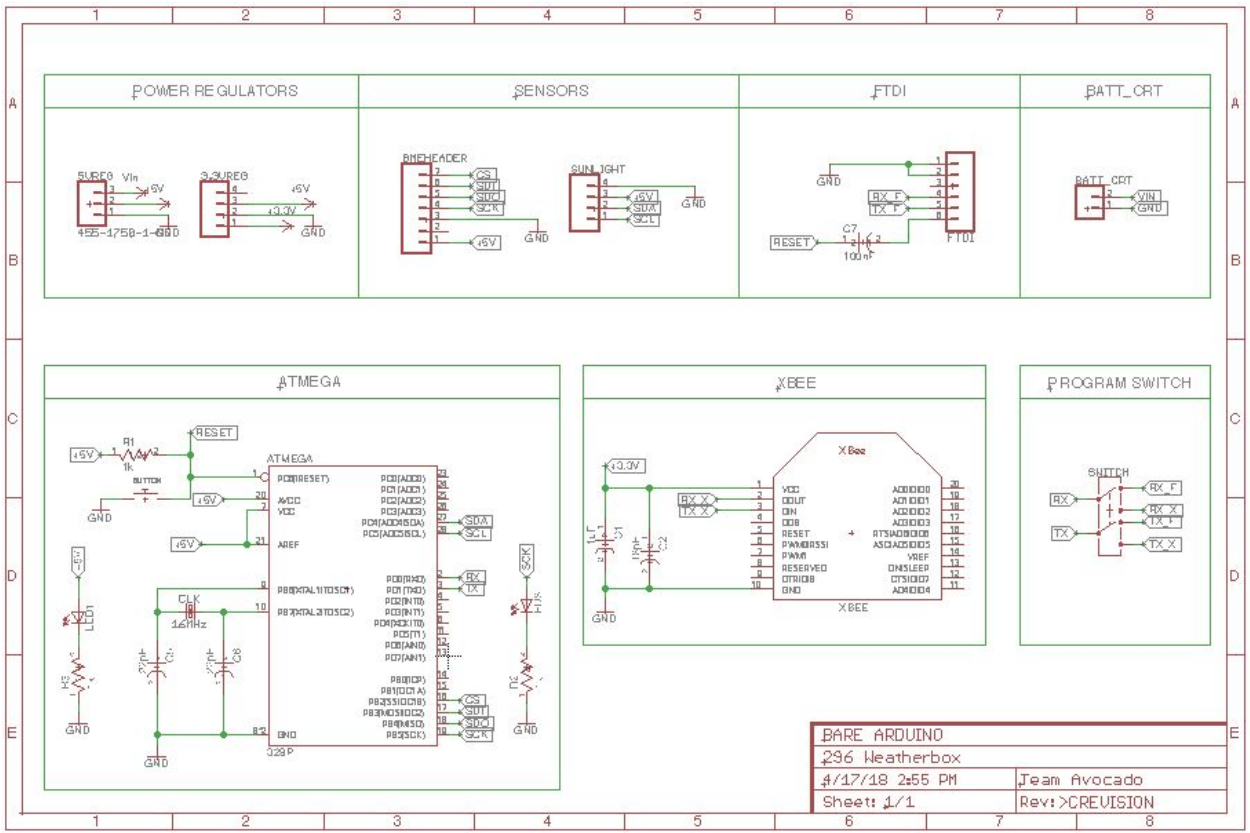
Status of Project

- ❑ PCB Layout
- ❑ Breadboarding
- ❑ Software

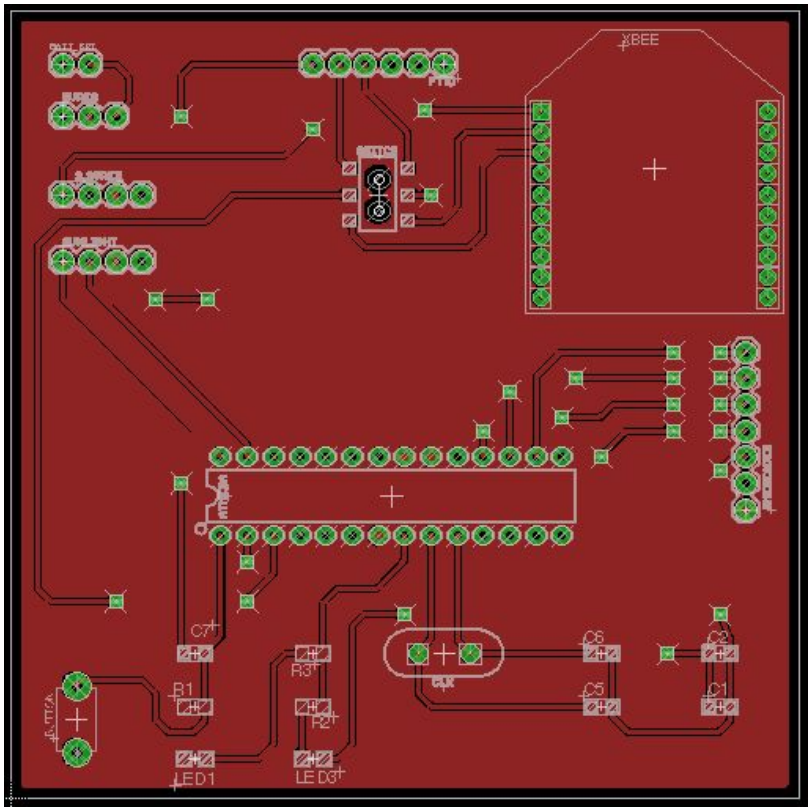


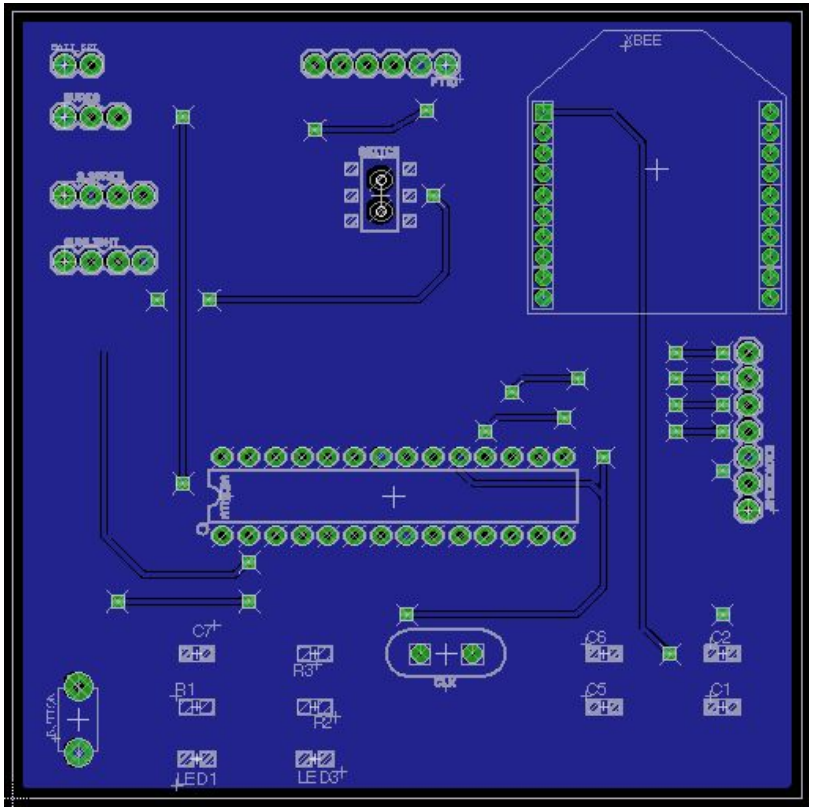


Schematic


POWER REGULATORS
SENSORS
FTDI
BATT_CRT
5VREG
3.3VREG
455-1758-1-ND
ANEHEADER
SUNLIGHT
GND
RESET
FTDI
BATT_CRT
VIN
ATMEGA
XBEE
PROGRAM SWITCH
ATMEGA
XBee
SWITCH
BUTTON
LED1
CLK
16MHz
BARE ARDUINO
296 Weatherbox
4/17/18 2:55 PM
Team Avocado
Sheet: 1/1
Rev: >CREVISION

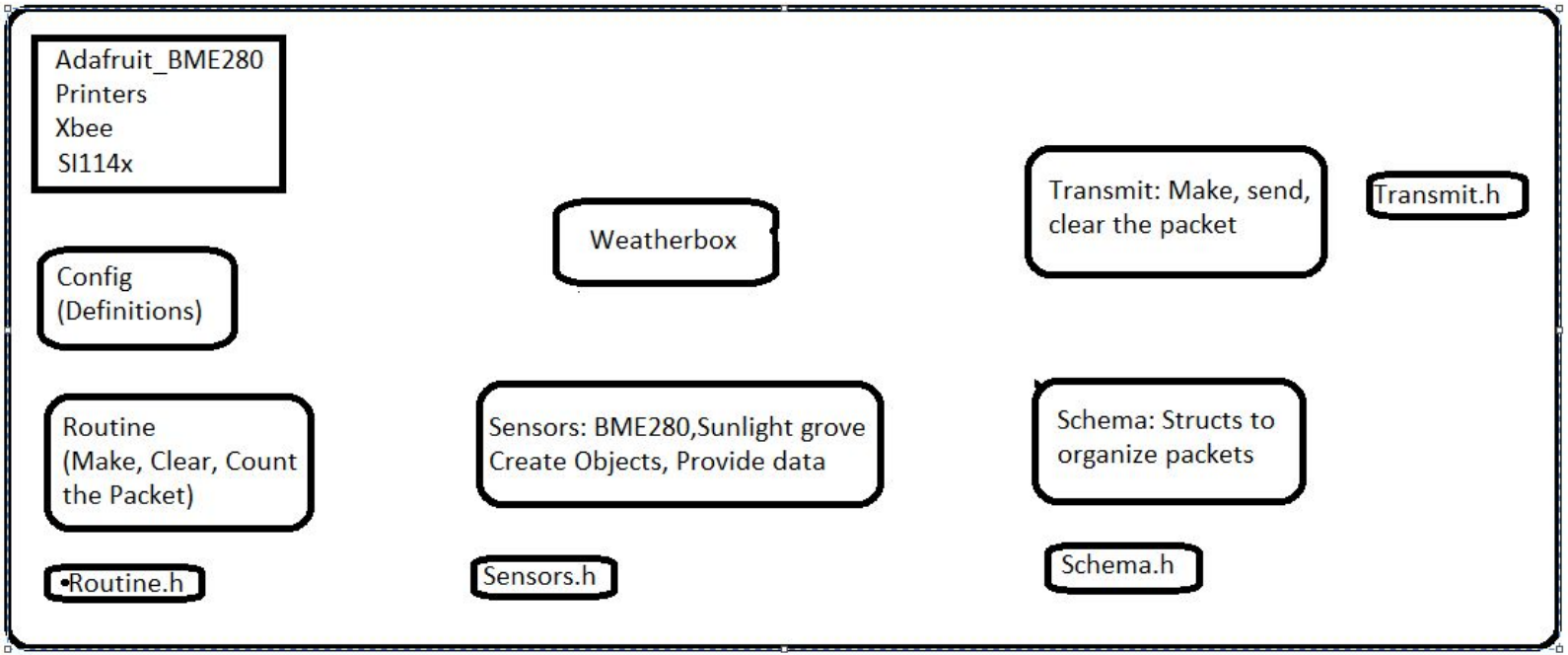
PCB Layout


XBEE
C7
R3
B1
R2
LED1
LED3
C6
C2
C5
C1


XBEE
C7
R3
B1
R2
LED1
LED3
C6
C2
C5
C1


8

Code (Algorithm)



Remaining Problems/Tasks

- Verify Data
- Finalize the code to satisfy the requirements
- Housing draft

Future Improvements

- Time management
- Programming
- Breadboarding
- Technical skills

QUESTIONS?