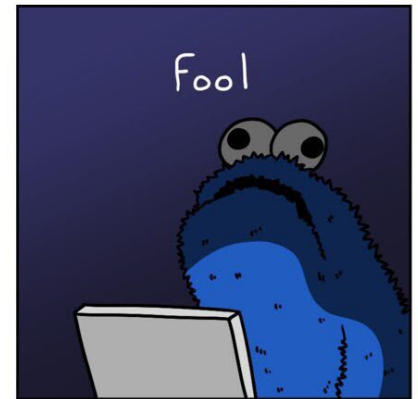
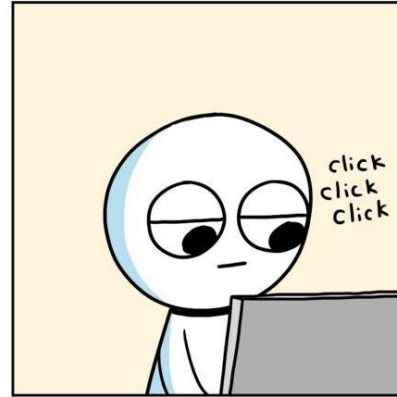


Team Lotus

Preliminary Design Review (PDR)

Mentor: Makamae

Advisor: Dr. Kuh



@ICSandwichGuy

icecreamsandwichcomics.com

Overview

- Preliminary design/Block diagram
- Schematics
- Future steps

Preliminary Design

- Regulate voltage
- Switch to turn off sensors

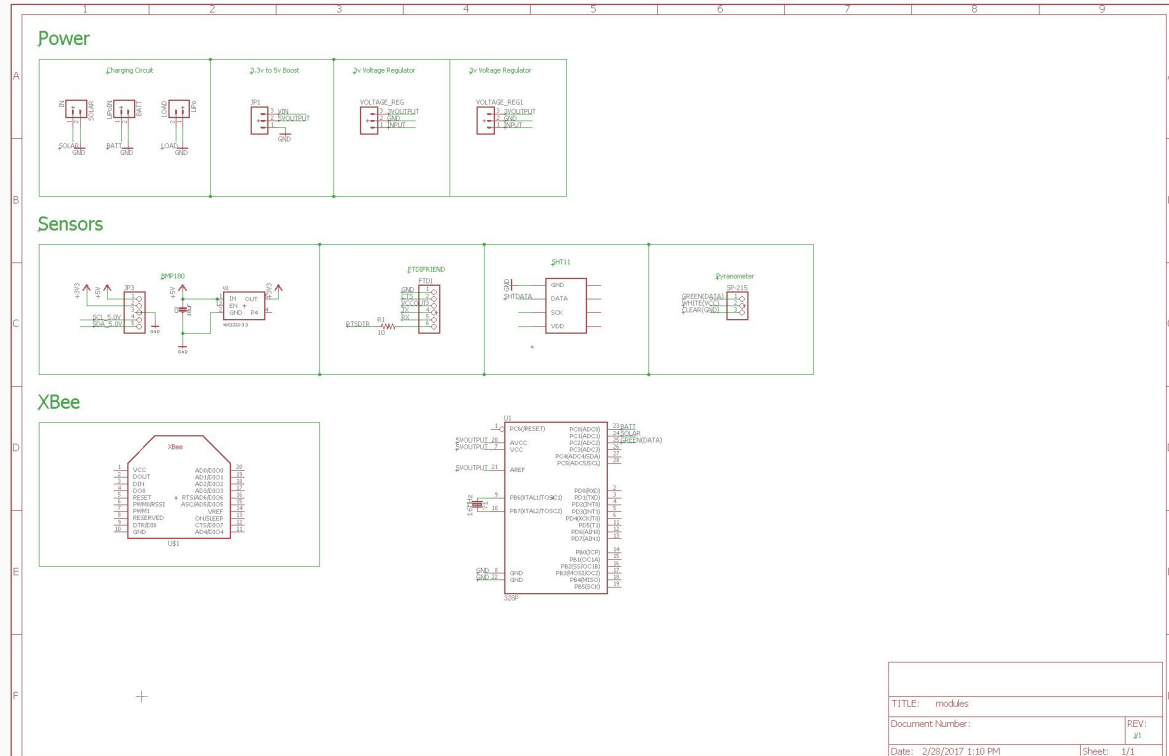


Schematic

Parts Included (In Progress):

- Power
 - Charging Circuit, 3.3v to 5v Boost, 3.3v Regulator (2x)
- Sensors
 - BPT 180, SHT11, SP-215
- FTDI Friend
- XBee
- Atmega328p Microprocessor

Will continue development...



Future Steps

- Complete Schematics and begin board design
- Learn more about how to implement the design
- Begin work on XBee communication

Week	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Date	1/23/16	1/30	2/6	2/13	2/20	2/27	3/6	3/13	3/20	3/27	4/3	4/10	4/17	4/24	5/1
Presentations															
Proposal															
Design															
Final															
Demonstration															
Training															
Git / Github															
Arduino / Bare Arduino															
Eagle															
Modules															
Microprocessor															
Sensors															
Charging Circuit															
Xbee															
Build															
System Integration															
Overall System Firmware															
Design / PCB Printing															
Housing															
Test															
Debug															
Reports															
Final Report															

Thanks! Any
Questions?