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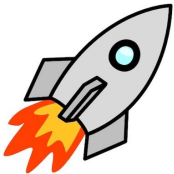
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# Preliminary Design Review

Team Rocket  
Emily Lum, Andrew Obatake,  
Jennifer Chun  
Mentor: Kim Pee Castro

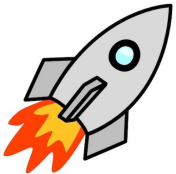
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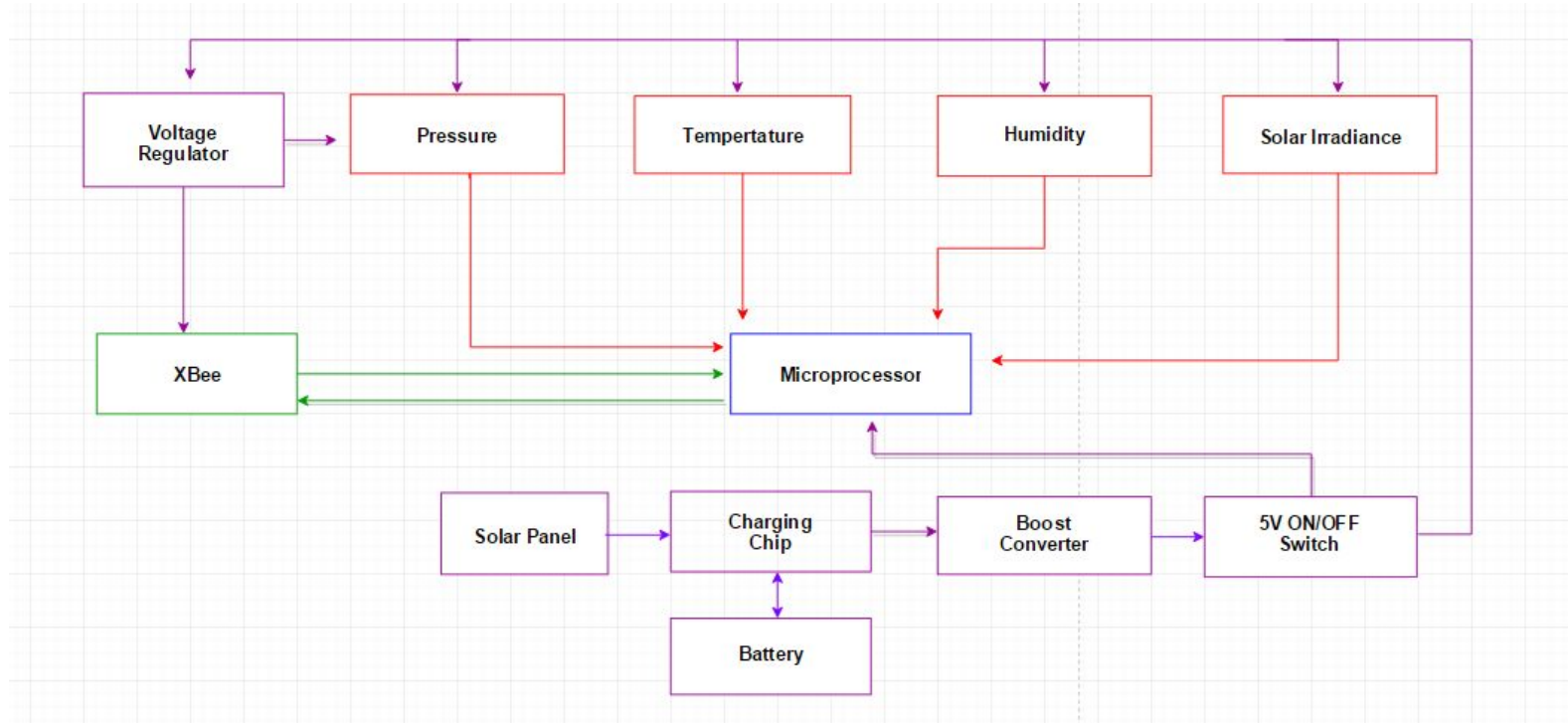


# Presentation Overview

- Block Diagram
- Progress
- Problems Encountered
- Potential Problems
- Updated Schedule

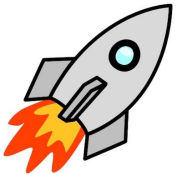
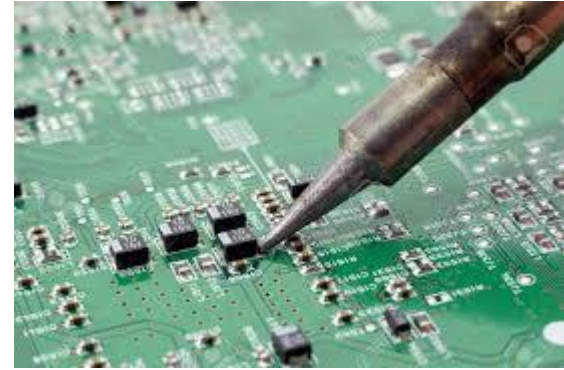


# Block Diagram



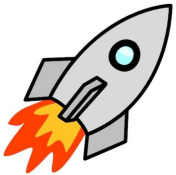
# Progress

- Completed all tutorials
  - Eagle, Github, Arduino
- Soldering Workshop
- Tested:
  - Microcontroller
  - Sensors (Temperature, Pressure, Solar Irradiance, Humidity)
  - Charging circuit
- Working on:
  - Testing the XBee
  - PCB design



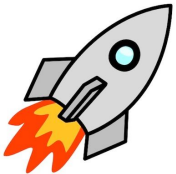
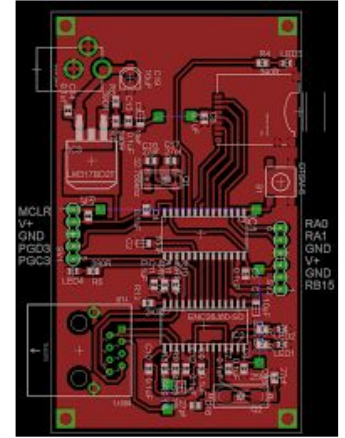
# Problems Encountered

- Microcontroller
  - Not compatible with Arduino
- Temperature Sensor
  - Datasheet didn't match schematic
- Xbee
  - Couldn't get it to connect
- Time Management



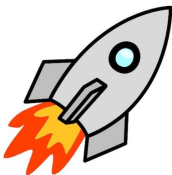
# Potential Problems

- PCB design delays
  - Inexperienced in Eagle
  - Solution: Find resources (Google & Youtube)
- Time Management



# Updated Schedule & What's Next

Project												
(Gantt Chart)												
Week	1	2	3	4	5	6	7	8	Spring Break	9	10	11
Date	1/25/2016	2/1/2016	2/8/2016	2/15/2016	2/22/2016	2/29/2016	3/7/2016	3/14/2016	3/21/2016	3/28/2016	4/4/2016	4/11/2016
<b>Presentations</b>												
Proposal	X											
Design												
Final												
Demonstration												
<b>Training</b>												
Git/GitHub	X	X										
Arduino/Bare Arduino	X	X										
Eagle			X	X								
<b>Modules</b>												
Microprocessor	X	X										
Sensors			X	X								
Charging Circuit		X	X									
Xbee												
<b>Build</b>												
System Integration												
Overall System Firmware												
Design/Print PCB												
Housing												
<b>Test</b>												
Debug												
<b>Reports</b>												
Final Report												
Lead on PCB & System Integration: Emily Lead on System Firmware: Jennifer											Finish Weather- boxes by	



# Any questions?

