

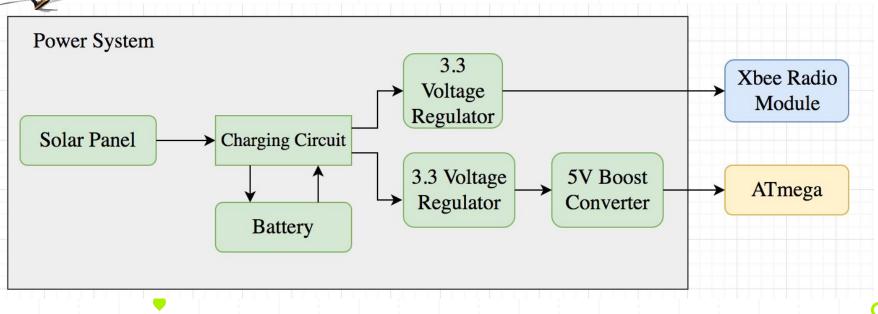
# Team Bumblebee Preliminary Design Review

**Isaiah Aribal & Kayla Amano** 



# **Block Diagram (Power)**

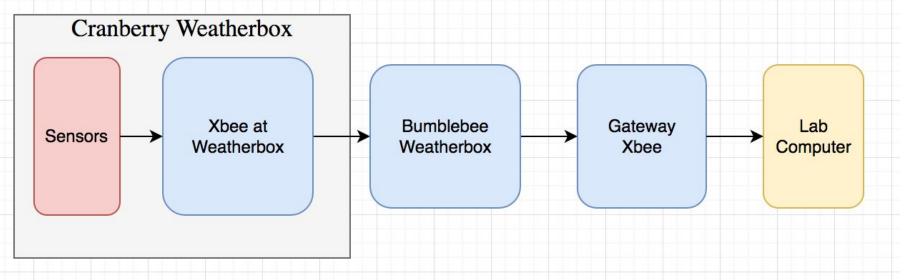














## **Team Progress**

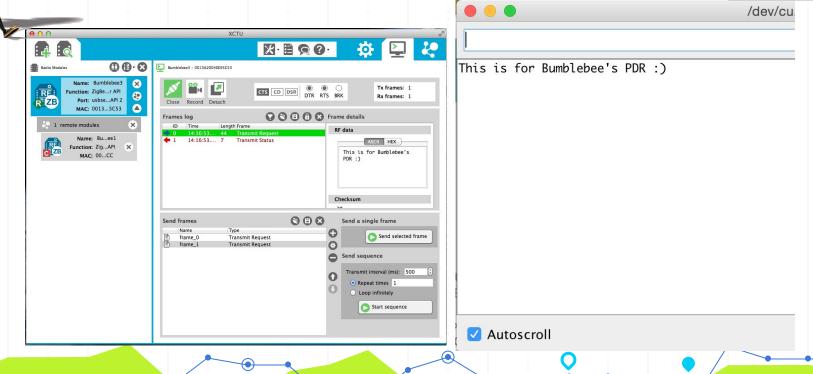
- Xbee communication tests
  - Computer to computer
  - Computer to arduino with xbee shield





# **Computer(Sending) to Arduino with Xbee Shield(Receiving)**



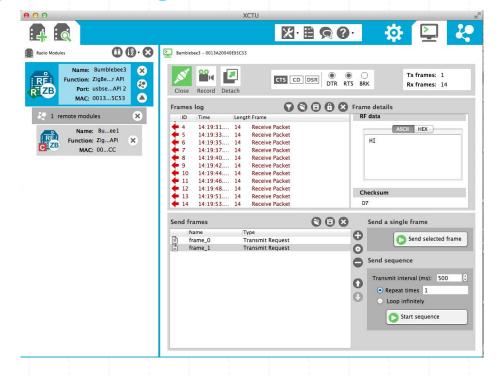




**Computer(Receiving) to Arduino with Xbee Shield(Sending)** 



Smart Campus Energy Laboratory







### **Resolved Problems**

- Unable to send and receive packets between two computers
  - Emailed Andrew and he worked magic
- Errors when receiving packets on Arduino with xbee shield
  - Found new code to use





## **Problems/Issues**

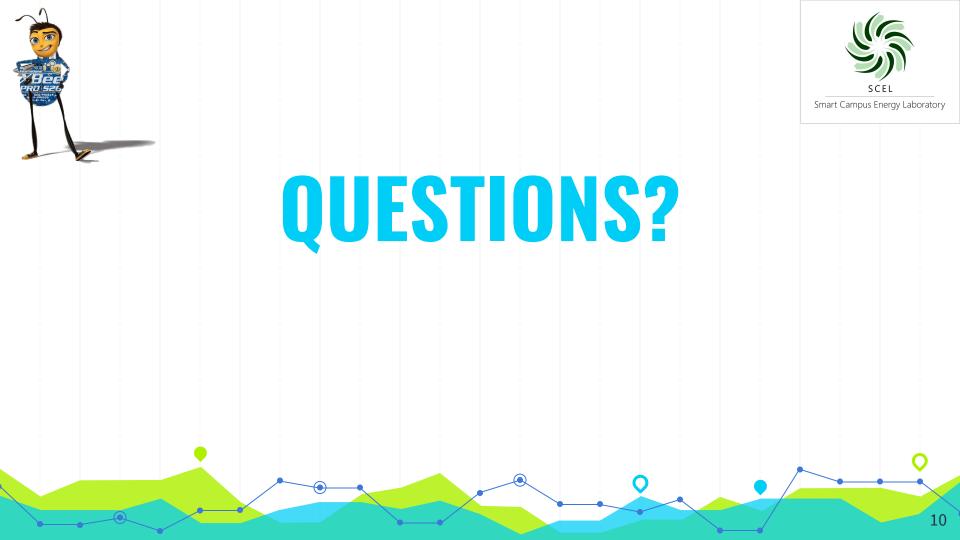
- Unable to send and receive packets between computer and bare arduino
  - The code is not the problem
  - Possible problems
    - Wiring between the xbee and the atmega
- Unable to program bare Arduino
  - Temporary fix: Hit the reset button while programming







- Two way communication between
  - computer and board
  - Two boards
- Range testing
  - Distance
  - Weather
  - Obstacles (buildings/walls)
- Designing, fabrication, & testing of PCB
- Weatherbox network





#### SlidesCarnival icons are editable shapes.

This means that you can:

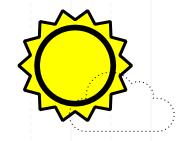
- Resize them without losing quality.
- Change fill color and opacity.
- Change line color, width and style.

Isn't that nice?:)

Examples:









#### Now you can use any emoji as an icon!

And of course it resizes without losing quality and you can change the color.

How? Follow Google instructions https://twitter.com/googledocs/status/730087240156643328

