



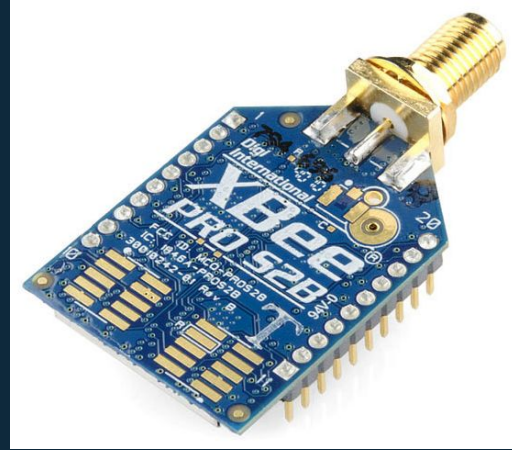
# Critical Design Review Presentation

Advisor: Dr. Anthony Kuh  
Mentor: Tryston Fagarang  
Savath Saepoo  
EE 496  
11/12/16

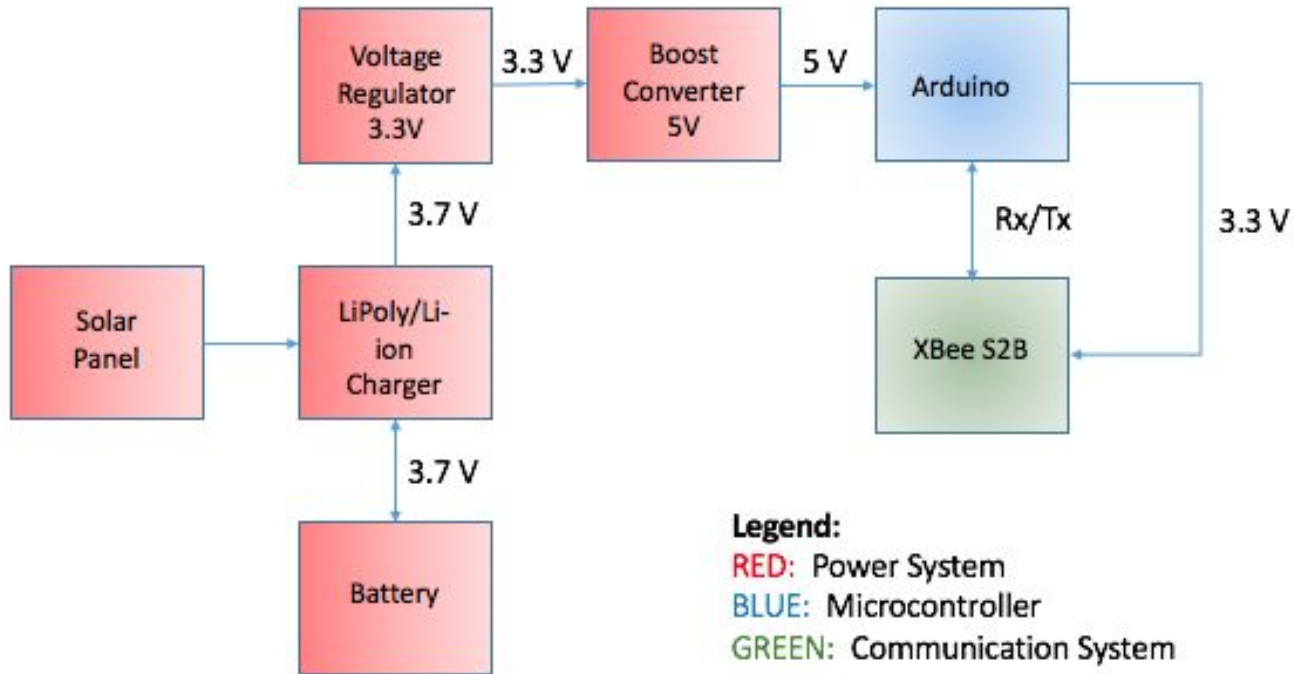


# Overview

- Block Diagram
- Progress
- Remaining Tasks
- Questions



# Overall Block Diagram



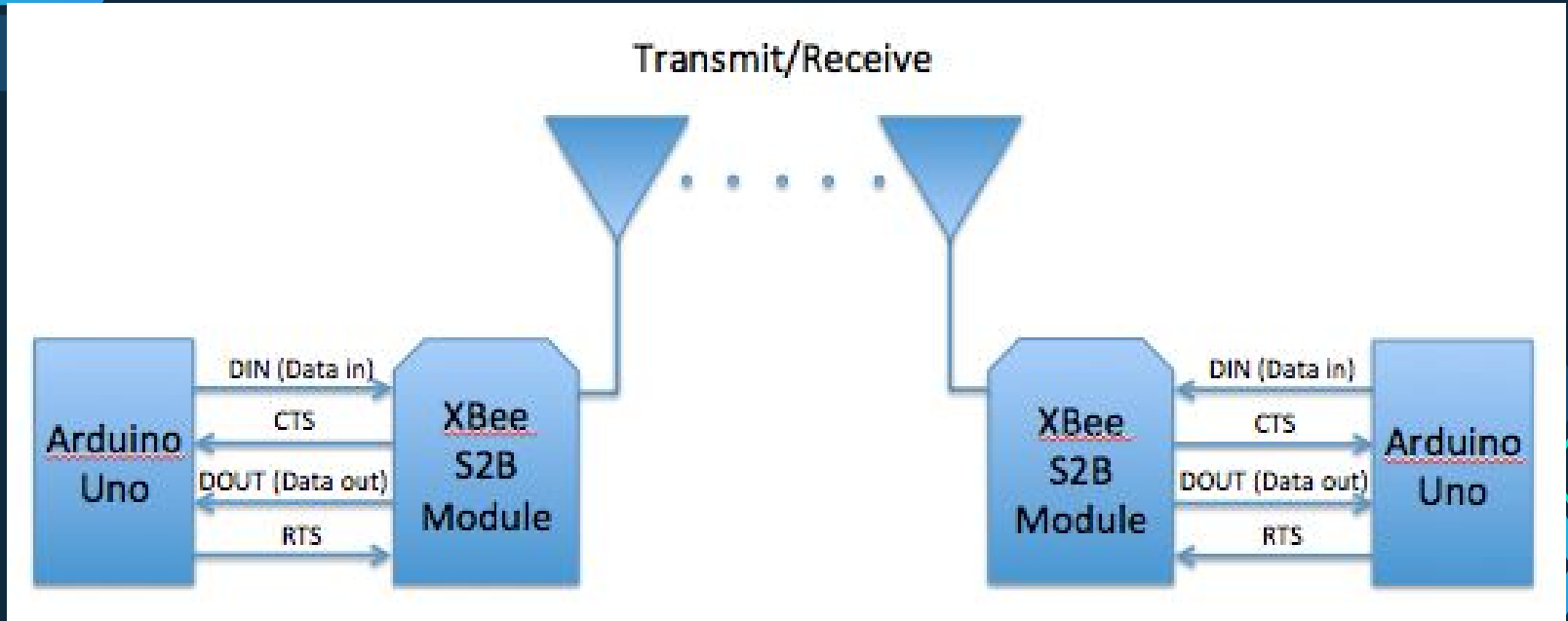
**Legend:**

RED: Power System

BLUE: Microcontroller

GREEN: Communication System

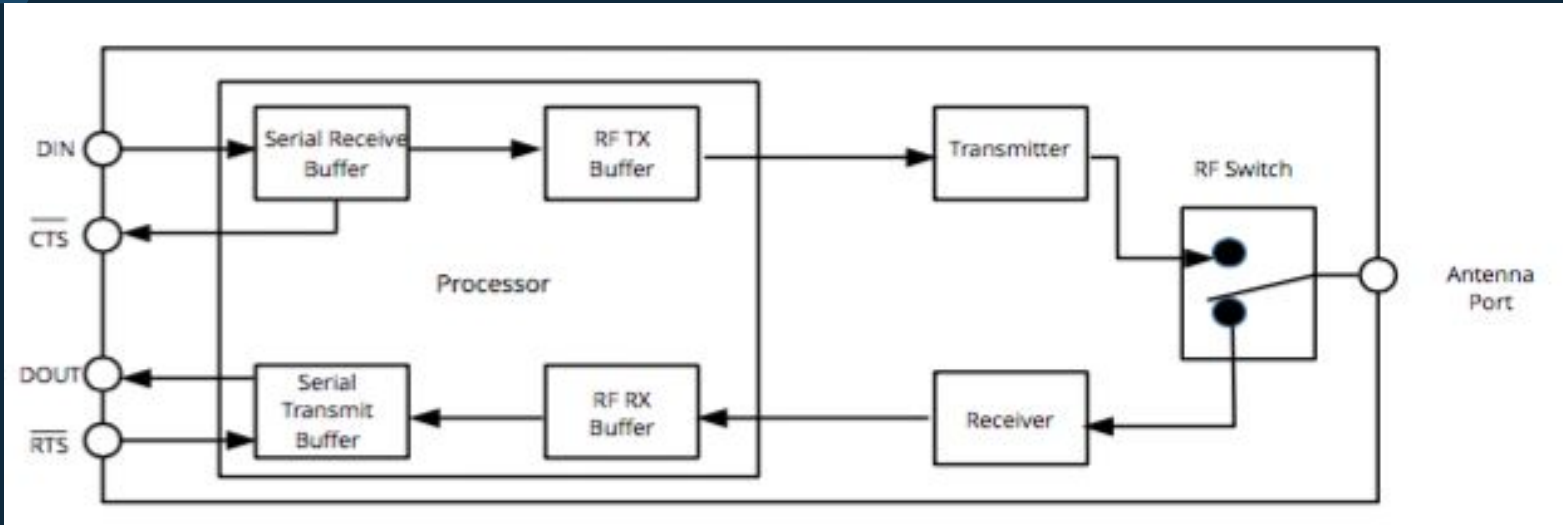
# System Data Flow Diagram





# Issue

- Serial buffer of the XBee module





# Remaining Tasks

- Two way communication using one XBee (Router XBee)
- Finish PCB board design on EAGLE
  - Test board
- Housing





# Gantt Chart

Week	1	2	3	4	5	6	7	8	9	10	11	12	13
Date	9/10/16	9/17/16	9/24/16	10/1/16	10/8/16	10/15/16	10/22/16	10/29/16	11/5/16	11/12/16	11/19/16	11/26/16	12/3/16
<b>Presentations</b>													
Proposal													
Preliminary Design Review													
Critical Design Review													
Final Presentation													
<b>Ant</b>													
Reading Documentations													
Configuring XBees on XCTU													
Design Layout													
Testing Breadboard Design													
Debugging Breadboard Design													
Programming Arduino													
Board Fabrication													
Testing PCB Design													



A decorative graphic on the left side of the slide consists of several hexagons of varying sizes and shades of blue and cyan. Some hexagons contain icons: a lightbulb, a thumbs-up, a smartphone, a magnifying glass, and a gear. There is also a network-like icon with a central node and radiating lines. A large, prominent hexagon with a cyan-to-blue gradient is the central focus of the graphic.

Any Questions?



# References

## Websites:

- <http://www.digi.com/products/xbee-rf-solutions/xctu-software/xctu>

## Images:

- <https://cdn.sparkfun.com//assets/parts/4/8/9/3/10419-01.jpg>