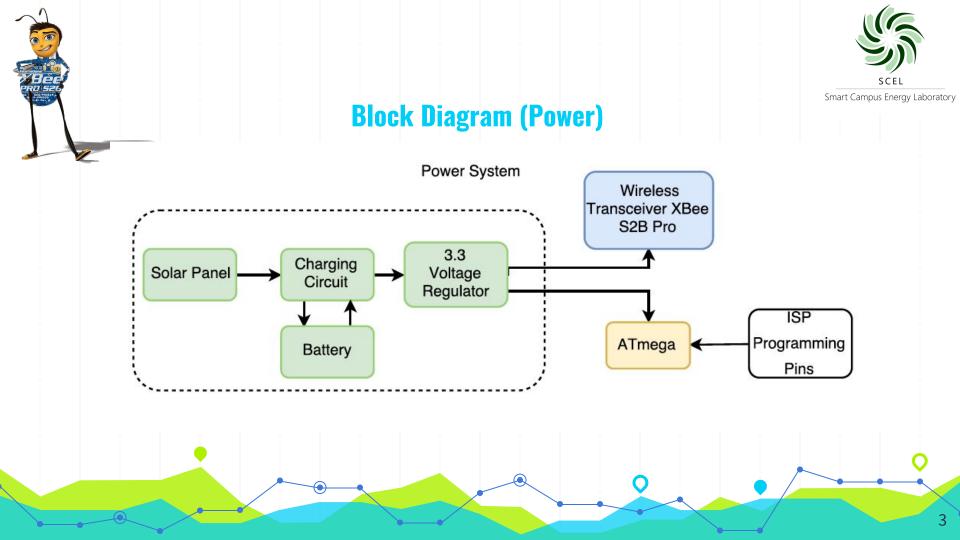


Team Bumblebee Spring 2018 Preliminary Design Review Kayla Amano, Alex Moore, Rebecca Rupley, Alex Wong



Presentation Overview

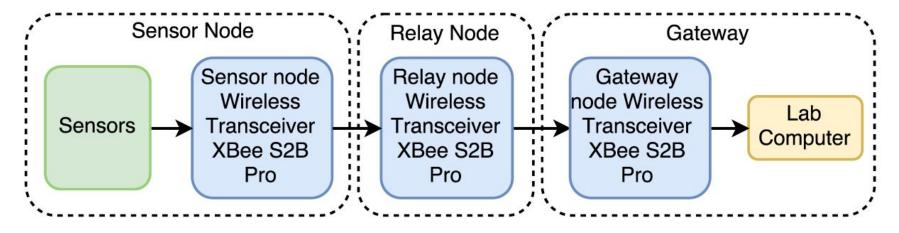
- Block Diagrams
 - Power
 - Signal/Communication
- Team Progress
- Schematic
- PCB
- Problems
- Gantt Chart
- What Needs To Be Finished







Block Diagram (Signal/Communication)





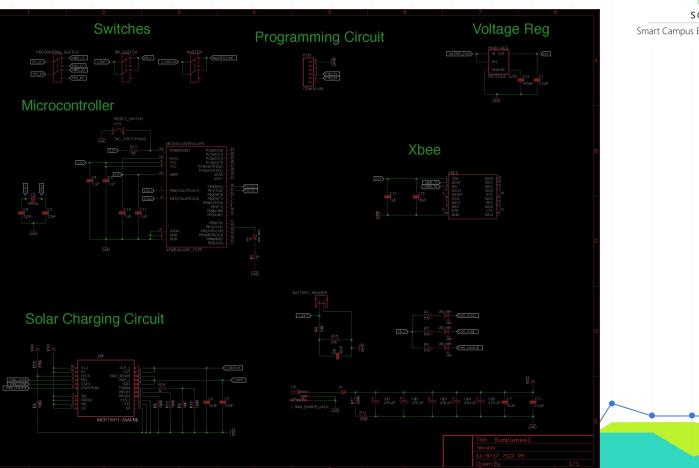




Team Progress

- Populated PCBs
 - One done, one almost done
- Met with housing team
- Started looking at firmware

Schematic

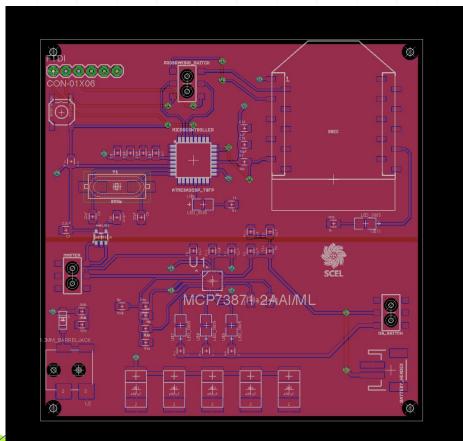




6



PCB Design



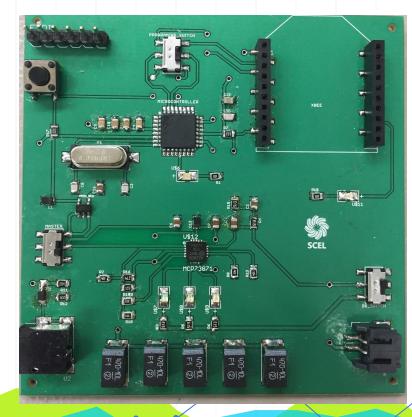


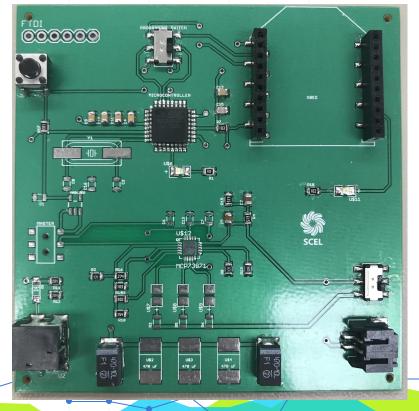
Smart Campus Energy Laboratory















Problems

- Used wrong parts list for first PCB attempt
- First time soldering surface mount components
 - Microcontroller







Week	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
	Jan-22	Jan-29	Feb-5	Feb-12	Feb-19	Feb-26	Mar-5	Mar-12	Mar-19	Mar-26	Apr-2	Apr-9	Apr-16	Apr-23	Apr-30	May-7
Spring Break																
Presentations																
Proposal Presentation		Feb-3														
Preliminary Design Review					Feb-24					-						
Critical Design Review									Mar 24							
Final Presentation														Apr-28		
VIP poster session																
EE496 Poster Session																
PCB Fabrication/Assembly																
Fabrication Time																
Populating																
Testing																
								-								
Firmware			1													
									5							
Housing																
Design																
Fabrication								1								
Deployment																
Final Report																





What Needs to Be Finished

- Populate last few components
- Testing of PCB
- Housing
- Modify firmware for one Bumblebee to accommodate more than one Weatherbox
- Test Bumblebee with Cranberry





QUESTIONS?