



# Dragon Fruit Preliminary Design Review (PDR)

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# Overview

- Goals for Semester
- Overall Block Diagram
- Problems Encountered
- Team Progress
- PCB
- Schedule





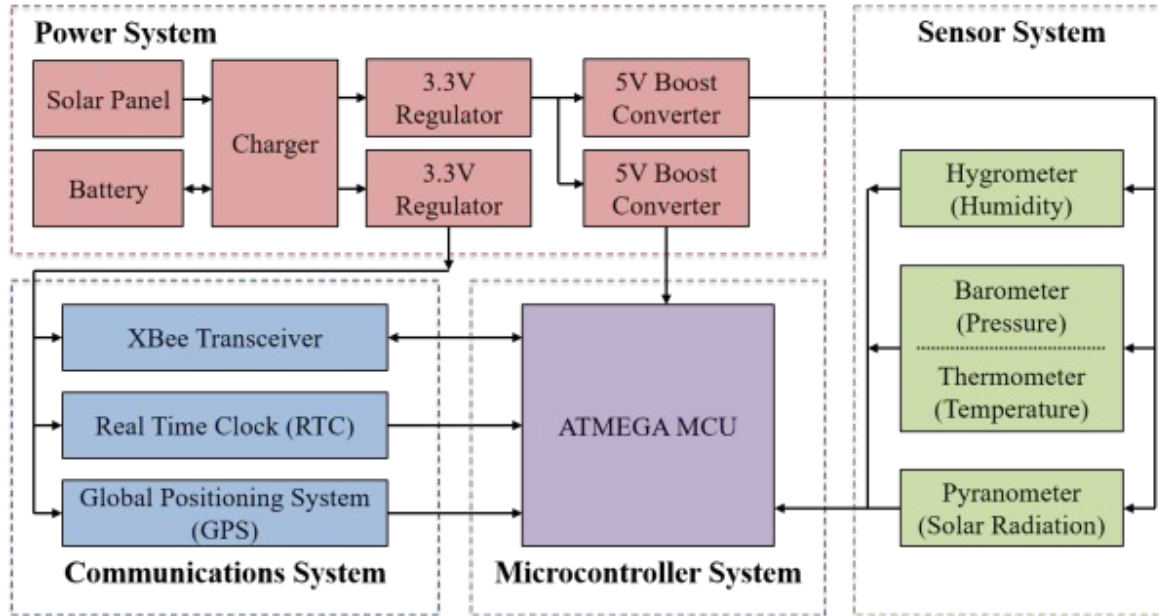
# Goals for Semester

- Deploy a working dragon fruit
- Debug V2 and V3 boards
- Mill V4
- Modify housing to fit V4 design





# Overall Block Diagram





# Problems Encountered

- Difficulties getting previous boards programmed
- Still not sure if previous transmission issues will exist

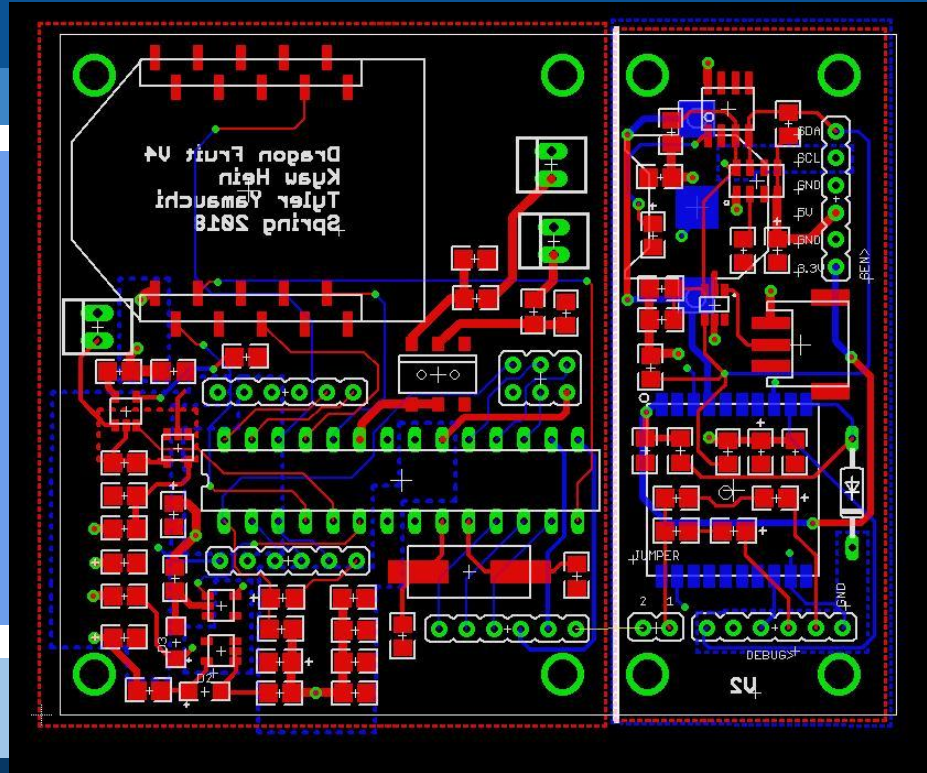


# Team Progress

- V4 board edits completed
- Soldered new sensor boards
- Voltage checks on V2 and V3
- Ron Ho Request Form process almost complete



# PCB



# Schedule



Confer with Andrew about programming (Gantt Chart)																	
Week	1	2	3	4	5	6	7	8	9	10	Spring Break	11	12	13	14	15	16
Date	1/15/2018	1/22/2018	1/29/2018	2/5/2018	2/12/2018	2/19/2018	2/26/2018	3/5/2018	3/12/2018	3/19/2018	3/26/2018	4/2/2018	4/9/2018	4/16/2018	4/23/2018	4/30/2018	5/7/2018
<b>Presentations</b>																	
Proposal																	
Preliminary Design (PDR)																	
Critical Design (CDR)																	
Final Design (FDR)																	
<b>PCB (Version 4.1)</b>																	
Analyze Board Design																	
Make Board Edits																	
Get Board Milled																	
Solder Parts																	
<b>Programming</b>																	
Program Board v3																	
Program Board v4																	
<b>Housing</b>																	
Make Edits																	
Print needed parts																	
<b>Tests (Current Board)</b>																	
Transmission/Battery																	
Current, Voltage, Diode)																	
<b>Deployment</b>																	
Version 3																	
Version 4																	
<b>Report</b>																	
																	Report DUE!





# Questions?



# Image Sources

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<http://cryptid-creations.deviantart.com/art/Daily-Paint-1081-Dragon-Fruit-Keeper-570702189>

<http://www.michaelleestallard.com/wp-content/uploads/Hello-My-Name-Is-Name-Badge.jpg>