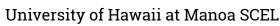




Dragon Fruit Proposal Presentation

Advisor: Dr. Anthony Kuh





Overview

- Team Introductions
- Project Motivation
- Board Overview
- Goals for Semester
- Potential Problems
- Team's Progress
- Gantt Chart



Project Motivation



To design a weatherbox that maximizes design quality, power efficiency, and processing speed

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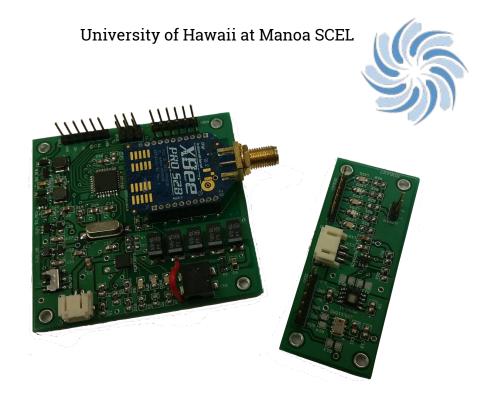
Goals for Semester

- Dragon fruit Version 4
 PCB implementation
- Program and deploy any board version
- Gather accurate data



Potential Problems

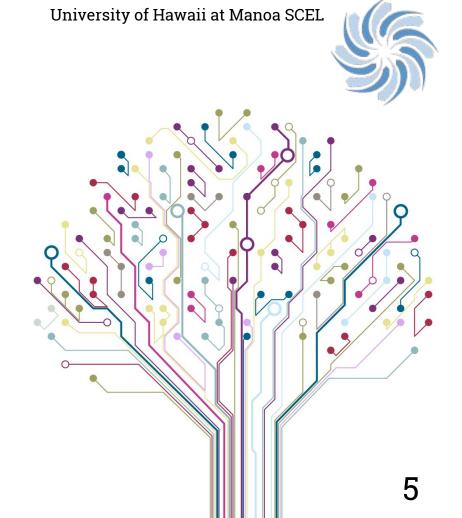
- Transmission
- Programming
- Debugging



- Microprocessor and sensors running off of 5V
- Ribbon cable main board with sensor board

Learning Expectations

- Improve technical skills:
 - EAGLE PCB design
 - Soldering
 - o 3D design
 - Circuit analysis
- Debugging experience

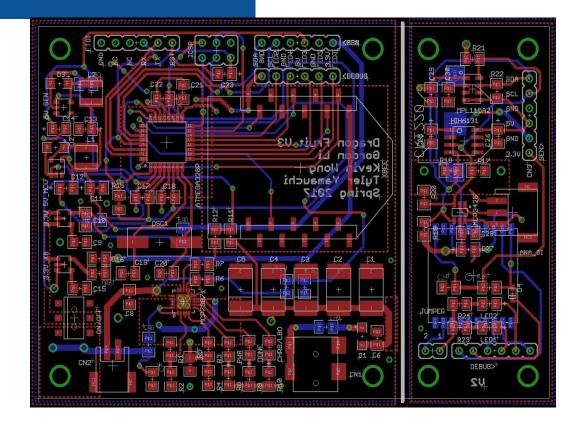




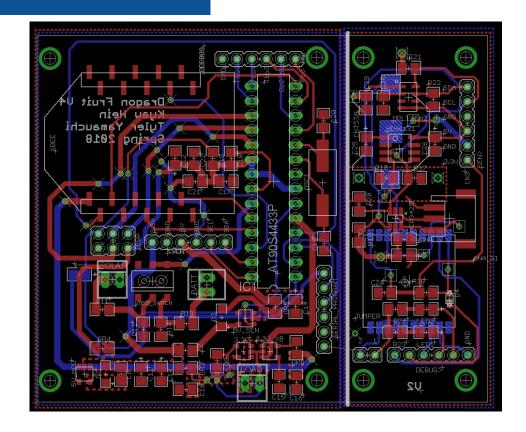
 Version 4 of Dragon fruit PCB design "completed"

Soldering new sensor boards

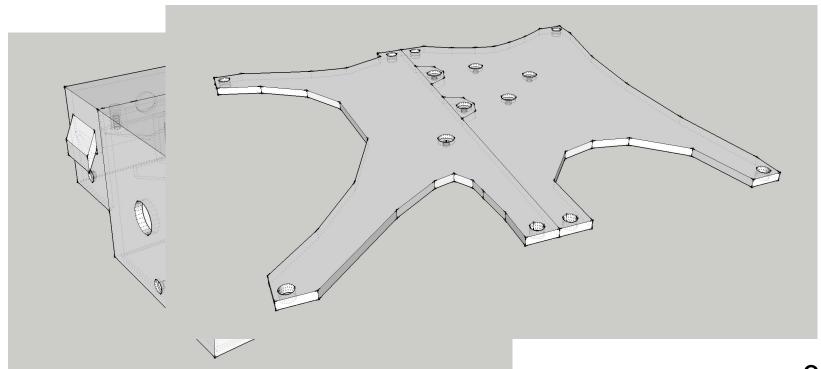












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Gantt Chart



								Confer with A	ndrew about pr	ogramming							
1								11111111111111	(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
Presentations								,					,				
Proposal																	
Preliminary Design (PDR)											7						
Critical Design (CDR)					į į					9							
Final Design (FDR)										5							
PCB (Version 4.1)											Ī						
Analyze Board Design																	
Make Board Edits																	
Get Board Milled																	
Programming																	
Program Board v4																	
			-														
Housing											Ī						
Make Edits																	
Print needed parts							1										
Tests (Current Board)																	
Tranmission/Battery																	
Current, Voltage, Diode)																	
Deployment (Version 2)																	
Report																	Report DUE!



Questions?

Image Sources

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

http://www.gimmesomeoven.com/wp-content/uploads/2014/03/Jambalaya-13.jp

g

https://www.linkedin.com/in/george-zhang-b654918b/

http://orientautoservice.com/wp-content/uploads/2015/06/mechanic.png

https://static1.squarespace.com/static/55bd6bfae4b0c50a1d887185/t/55c7bd50

e4b0334a77da1c83/1439153548590/mechanic.png

