

# TEAM CHOCOLATE COSMOS

RILEY CAMMACK

SAWINNA HUANG KENNETH LAURITZEN

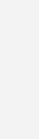
WITH MENTORSHIP FROM EMILY LUM

## INTRODUCTION

RILEY



SAWINNA



KENNETH



**EMILY** 



Computer Engineer Sophomore

Electrical Engineer Sophomore

Computer Engineer Sophomore

Mentor

## MOTIVATION

- Reducing Hawaii's oil dependency
- Integration of renewable energy sources
- Learning vital skills for engineering career
- ❖ Acquiring and interpreting data

#### OVERVIEW

- ❖ Design a working weatherbox
- ❖ Collect accurate, reliable data
- Maximize efficiency
- ❖ Minimize cost
- Durable design

#### GOALS

#### **Short-term goals:**

- To gain hardware/software skills
- Time management
- Leadership
- Communication
- Better knowledge of renewable energy
- Soldering skills
- Become proficient in various programs

#### Long-term goal:

Make a weatherbox that works



# TIMELINE

		Team Chocolate Cosmos														
	(Gantt Chart)															
Week	1	2	3	4	5	6	7	8	9 Spring Break		10	11	12	13	14	15
Date	1/16/2017	1/23/2017	1/30/2017	2/6/2017	2/13/2017	2/20/2017	3/6/2017	3/13/2017	3/20/2017	3/27/2017	4/3/2017	4/10/2017	4/17/2017	4/24/2017	5/1/2017	5/8/2017
Git/GitHub	Tutorial	Tutorial	Tutorial	Ì	ĺ	Ì	j		ĺ	ĺ	j	Ì	ĺ	Ĭ.	ĺ	j
Arduino/Bare Arduino																
Eagle							9				(1)					
Modules							2				(S)					
Microprocessor											- 13					
Sensors											0					
Charging Circuit											93					
Xbee											0					
Build							W .				0	,				
Overall System Firmware				1							93					
System Integration											9					
Design/Print PCB											0					
Housing							9									
Test											- // //-					
Debug																
Reports											45					
Final Report											0					
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#### Image Credits:

Chocolate Cosmos flower. Digital image. CliveChristian. N.p., n.d. Web. 7 Feb. 2017. <a href="https://www.clivechristian.com/wp-content/uploads/Chocolate-Cosmos-1.png">https://www.clivechristian.com/wp-content/uploads/Chocolate-Cosmos-1.png</a> → Solar Panels. Digital image. Static Pexels. N.p., n.d. Web. 7 Feb. 2017. <a href="https://static.pexels.com/photos/159397/solar-panel-array-power-sun-electricity-159397.jpeg">https://static.pexels.com/photos/159397/solar-panel-array-power-sun-electricity-159397.jpeg</a>

◆ Goal. Digital image. Strategic Modularity. N.p., n.d. Web. 7 Feb. 2017. <a href="http://strategicmodularity.com/wp-content/uploads/2013/03/google.com\_">http://strategicmodularity.com/wp-content/uploads/2013/03/google.com\_">http://strategicmodularity.com/wp-content/uploads/2013/03/google.com\_">http://strategicmodularity.com/wp-content/uploads/2013/03/google.com\_">http://strategicmodularity.com/wp-content/uploads/2013/03/google.com\_">http://strategicmodularity.com/wp-content/uploads/2013/03/google.com\_">http://strategicmodularity.com/wp-content/uploads/2013/03/google.com\_">http://strategicmodularity.com/wp-content/uploads/2013/03/google.com\_">http://strategicmodularity.com/wp-content/uploads/2013/03/google.com\_">http://strategicmodularity.com/wp-content/uploads/2013/03/google.com\_">http://strategicmodularity.com/wp-content/uploads/2013/03/google.com\_">http://strategicmodularity.com/wp-content/uploads/2013/03/google.com\_">http://strategicmodularity.com/wp-content/uploads/2013/03/google.com\_">http://strategicmodularity.com/wp-content/uploads/2013/03/google.com\_">http://strategicmodularity.com/wp-content/uploads/2013/03/google.com\_">http://strategicmodularity.com/wp-content/uploads/2013/03/google.com\_">http://strategicmodularity.com/wp-content/uploads/2013/03/google.com\_">http://strategicmodularity.com/wp-content/uploads/2013/03/google.com\_">http://strategicmodularity.com/wp-content/uploads/2013/03/google.com\_">http://strategicmodularity.com/wp-content/uploads/2013/03/google.com\_">http://strategicmodularity.com/wp-content/uploads/2013/03/google.com\_">http://strategicmodularity.com/wp-content/uploads/2013/03/google.com/</a>