



Proposal Presentation

"Team Avocado"
EE296 Weatherbox



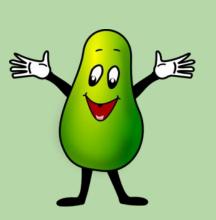
Team Members:

Clyde Felix

Rammell Transfiguracion

Sharmaine Javier

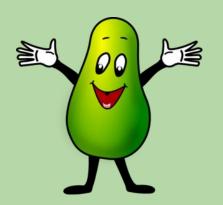
Mentor: Kenneth Lauritzen



Project Overview

Design a weatherbox that is:

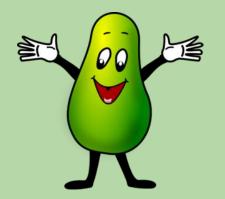
- Cheap
- Accurate in gathering data
- Durable
- Efficient



Motivation



- 1. Eager to learn
- 2. Interest in renewable energy
- 3. The sound of hardware!
- 4. Sounds fun.



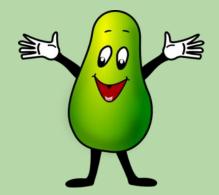
<u>Goals</u>

Short term

- Apply knowledge from engineering classes
- Perform tasks consistently
- Improve teamwork
- Improve communication skills
- Learn more knowledge in electrical engineering
- Improve programming skills

Long term

- Design and order PCB by the end of the semester
- Make the weatherbox device



Timeline/Schedule

Lab Hours: Tuesday & Thursday from 12:00-1:30pm

Clyde F., Rammell T., Sharmaine J.														Te	eam A	vocad	0															
Week	1			2		3		4		5		6	7	7		8		9		10		11		2	1	13		14		15		
Day	1/16	1/18	1/23	1/25	1/30	2/1	2/6	2/8	2/13	2/15	2/20	2/22	2/27	3/1	3/6	3/8	3/13	3/15	3/20	3/22	4/3	4/5	4/10	4/12	4/17	4/19	4/24	4/26	5/1	5/11		
Futorials	- 10	- 19	- 3					2								- 3	- 3	- 3		3			- 3			- 3		8				
Arduino									'	'																			'لينيا			
Github			- 3				4	- 6	4		V		4			- 6	à	ä		- 3	- 4		- A	- 8	- 4	- A			—	4		
Eagle			\blacksquare	<u> </u>	<u> </u>		4—'	Щ.	─ —'	<u> </u>	<u> </u>		4——"		igsquare		J.					\square			J.		igspace		—— <i>'</i>	4		
Presentations																												3				
Proposal Presentation		igsquare	\longrightarrow	'			4 '		└	<u> </u>	<u> </u>		<u>/</u>	\square								\square					igsquare		<u> </u>			
Preliminary Design Review	i i	7.		-	1		4	- 6	4	1 8			4——"			à	à		- 3		- 8			- A	- 4	- 6			—	4		
Critical Review		لــــــــا	$oldsymbol{oldsymbol{\sqcup}}$	─ ─'	<u> </u>		4—'	Щ.	└	 '			<u> </u>	<u> </u>	لــــــــا			11				\square					igspace		'لــــــــــــــــــــــــــــــــــــ	4—		
Final Presentation				-		1	4—"			_	4		4——"			- 6	- 0	- 8			- 8			- 8				- 9	-	4		
Modules							4—'		+	<u> </u>	4/		4									\square					igspace		-	4		
BME280 Sensor					<u>/</u>		4 $"$		\perp	 _'			$4__$ $'$																4			
Solar Irradiance Senor	T T	18	ì											1	1		100	1				1		1	1	1	- 4					
Microprocessor	1	1										1							- 0	73							- 9	1/4				
XBee	- 5		Ö							1	A V	1				į.	- 3	ÿ					Ö	į		- 5						
Charging Circuit				'							V V					- 8																
Battery		l J	السا	<u> </u>	1		4						4			J.	J.	L. J			L. J			l l		J.			'			
Solar Panel				(-1)'			/ '		1				I = I'																[/s		
Build	- 2	- 4																														
Eagle Schematic Design	- 5	- 5	- 5					1 9		1 9					- 4	- 5	- 8	- 8	- 8	- 3	- 8		- 13	- 8	- 1	- 3	- 8	8		A		
Design PCB Layout				\Box		The state of the s					17					The state of the s	**															
Software/Code	- 5	- 57	- 5	- 9	4	7		/ 5	1 7	4 5	1		1 9	- 5	- 5						- 55	- 33	- 5	- 2	- 2	- 5		- 8		A CONTRACT		
Breadboarding																																
Testing/Debuging	- 5	27	- 5		4 9	1	A = J'	4 5	1 2	4 9	1 1	1	I = I	- 2	13	- 3	- 28	- 8	- 8											A		
Final Report								7																								

QUESTIONS?

