



EE 496 Dragon Fruit Proposal Presentation

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Introduction



Brian Chan

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Overview

- Introduction
- Motivation
- Learning Objectives
- Approach & Schedule
- Problems



What is Dragon Fruit?



Bleeding edge weatherbox design

- addresses issues from Cranberry and Apple

Goals for this semester:

- Research and design a new board
- Get a working prototype by end of November



Motivation



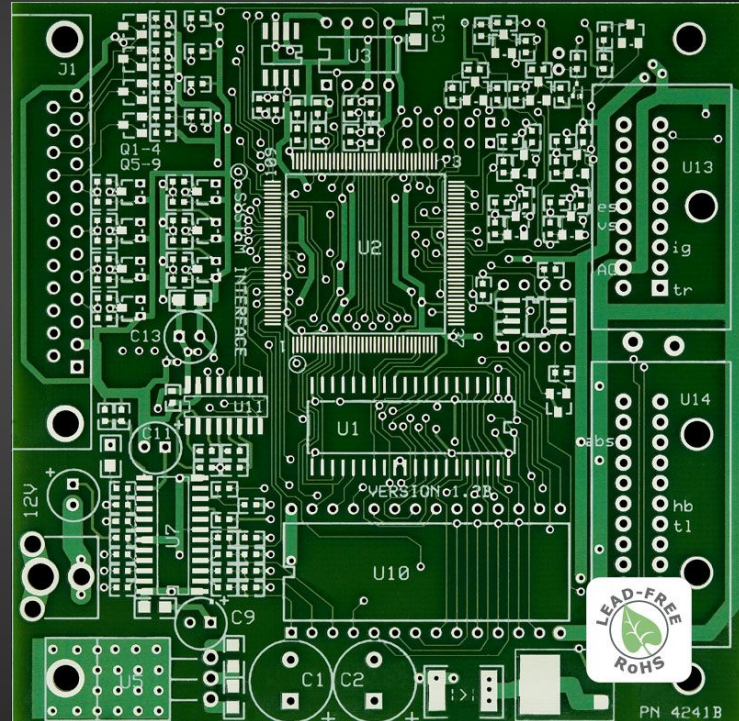
- Improvements on its predecessor Cranberry
 - Provide better sensor data
 - Lower power consumption
 - Lower cost



Learning Objectives



- Professionalism
 - PCB Design Rules
 - Work with new SMD parts
 - Documentation

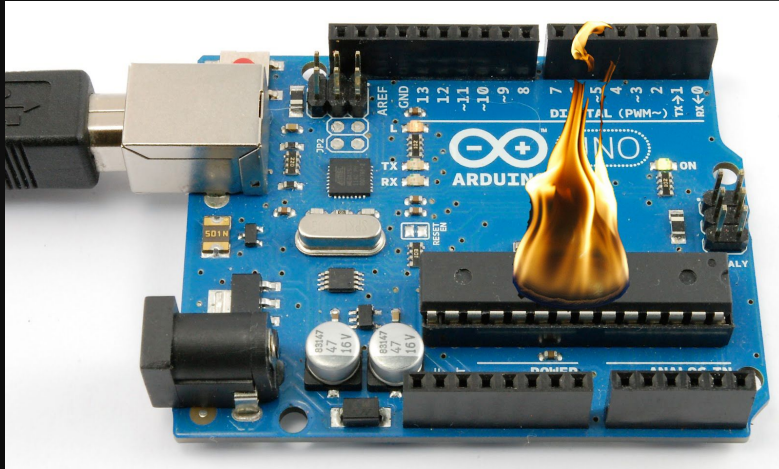


Tentative Schedule



- Read & understand Cranberry Designs
 - September
- Pick new parts
 - September - October
- Test all parts
 - October
- Design 1st iteration of Dragon Fruit
 - November
- Test the 1st design

Problems?



- Testing/burning IC parts
- Soldering problems
 - bridging/shorting connections

Conclusion

- Motivation
- Learning Objectives
- Approach & Schedule
- Problems





Questions?



Image Sources

- <http://www.clipartlord.com/wp-content/uploads/2013/01/dragon-fruit.png>
- http://www.expresspcb.com/wp-content/uploads/2015/06/PhotoProductionPCB_LF_800.jpg
- <http://previews.123rf.com/images/dvarg/dvarg1312/dvarg131200069/24395877-Cartoon-cranberry-with-green-leaves-on-white-background--Stock-Vector.jpg>
- <https://paramountmechatronics.files.wordpress.com/2012/11/burned-out.jpg>
- <http://s974.photobucket.com/user/dlh1231/media/dragonite.png.html>
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