

## Proposal Presentation

Team Bumblebee Fall 2019

**ENGR 396** 

#### Members



**Arnold Flores** 

- Senior
- 396 Project
- Electrophysics Track





#### Raellis Young

- Junior
- 396 Project
- Systems Track





### **Presentation Overview**

- Motivation/Approach
- Project Goals
- Gantt Chart
- Predicted Problems
- Learning Expectations
- Team Progress
- PCB Layout, Block Diagram
- Questions







- Successfully send data packets from weatherbox and send it to the server
- Ask Sharmaine and Mizpah for assistance
- Read past wikis to understand what we have to do





## **Project Goals**

- Debug current PCB
  - Find the correct voltage regulator
- Housing
- Hopefully deploy





## **Gantt Chart**

2019	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Date	9/2/19	9/9/19	9/16/19	9/23/19	9/30/19	10/7/19	10/14/19	10/21/19	10/28/19	11/4/19	11/11/19	11/18/19	11/25/19	12/2/19	12/9/19	12/16/19
Presentations																
Proposal																
PDR																
CDR																
Final																
Bumblebee																
Intro to Bumblebee																
Order																
Populate																
Revise Code																
Deploy BUZZZZ																
Test																
Test parts, code on Breadboard																
Test PCB																
Debug																
Reports																
Final Report																



## **Predicted Problems**

- If the part doesn't work, we will have to debug the entire board
- Ordering parts will take time





## Learning Expectations

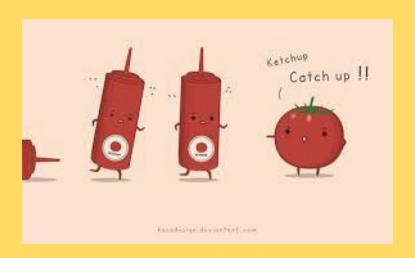
- Become better Self-Directed Learners
- Debugging
- Soldering
- Coding

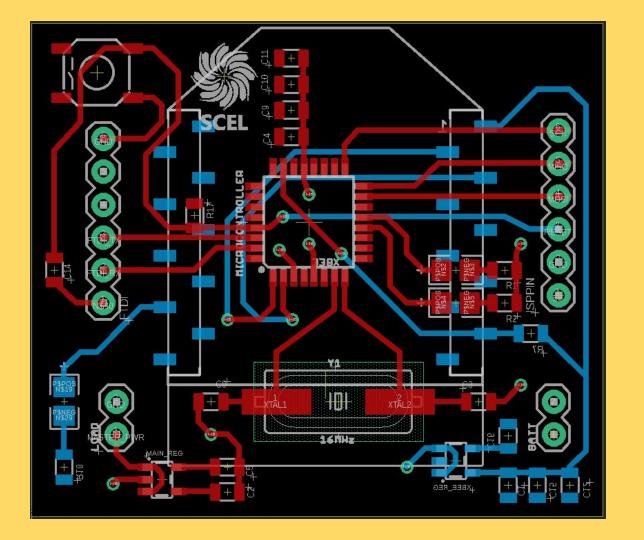




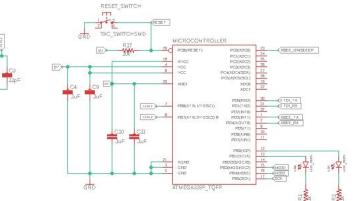
## **Team Progress**

- Learn about Bumblebee
- Catch up on what they're doing

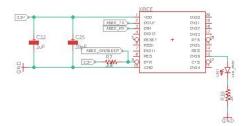




#### Microcontroller



#### Xbee



#### Solar Charger Header



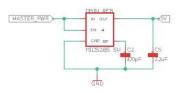


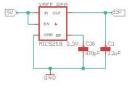
#### **Programming Circuit**





#### Voltage Reg







# Questions?

US: Let's work together again this semester

Thomas:





