

Critical Design Review



Team Bumblebee Fall 2019 ENGR 396

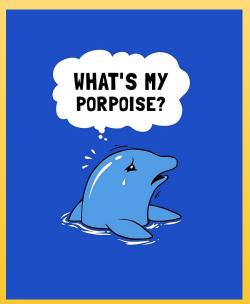


Presentation Overview

- Team Progress
- Problems
- Gantt Chart
- What Needs to be Finished
- Questions



- Debug PCB from last semester
- Populate new boards
- Range Testing in Holmes Hall

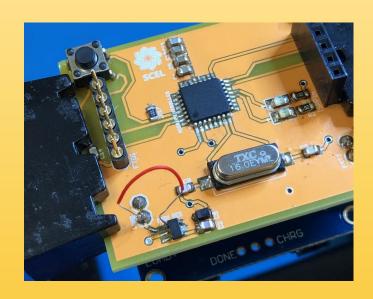




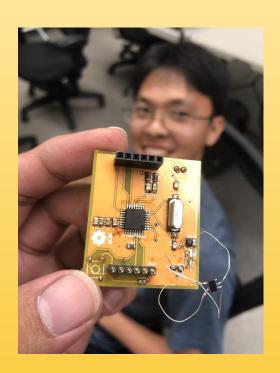
Team Progress

- Debugging PCB
- Rebuilding bare Arduino board
- Populated 2 new PCBs
 - to test 2 different boost converters
- XCTU tutorials
- Ordered new components

Debugging





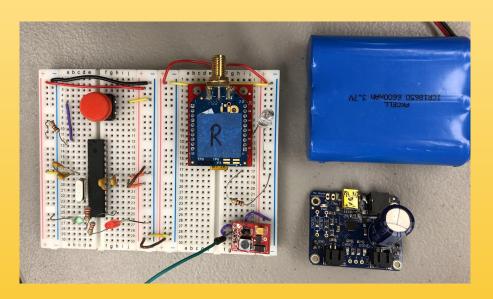


Ft. one of our members



Bare Bumblebee Board

- Rebuilding bare bumblebee



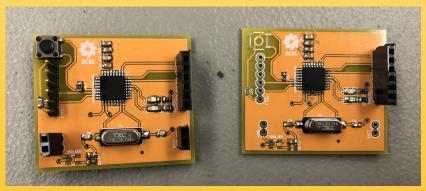


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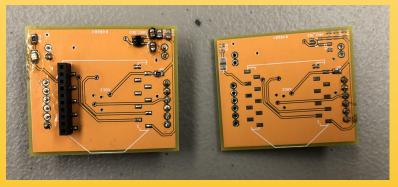
- Right: Arnold

- Left: Raellis

- middle : potatoes









Problems

- No mentor: self-directed learning
- Ran out of XBee SMD headers



- Unsure how to send packets and do Range Testing
- "Accidentally" took apart bare Bumblebee



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																

What Needs to be Finished

- Completely populate boards when parts come in
- Test bare Bumblebee
- Range Testing
- Learn how to send Xbee packets







Questions?