

Team Shock'em Meeting Minutes

Time: 4:30pm – 5:30pm

Date: 9/26/2019

Location: CNR 205F

Attendance

Austin Grieve

Samantha Baran

Xuyue Gu

Ziqing Zhu

Feng Li

Lauren Smith

Peter Baran

Jason Karl

Topics of Discussion

1. Dr. Karl – Brief overview of the project history and what he expects
2. Client interview
 - a. Team asked the questions outlined in the client interview document in the main folder
 - b. Determined we will focus on designing a prototype system by the end of the fall
3. Discussed Transmitting and Receiving devices
 - a. Decided to look more into high powered Tx/Rx devices
4. Overview of system architecture
 - a. Should it be more beacons or 4-5 beacons with transponders to determine the locations of the cows with other
 - b. We need to test transponders to see which is possible-fewer active beacons would be more efficient and cost effective
5. Putting circuit into Cadence
 - a. Can we put a transformer in Cadence?
 - b. Use reasonable sizes and models for transistors and diodes to simulate and optimize

To Do

1. Put circuit into Cadence
 - a. Estimate diodes/transistors
 - b. Try to simulate
2. Determine how the previous team located the cows without GPS then work on finding a new way
3. Start prototype of transponder