

Wizard's Chess Design Review 2
3/04/2020
Meeting Leader: Delany Bolton

Schedule:

- 08:30 - 08:50: Design Review
- 08:50 - 09:00: Miscellaneous Questions/Topics

Subsystems Status:

- Electromagnet
 - Status: Working
 - Runs off of the RPi3
 - Switching circuit to handle new 10kg magnet
 - Trouble with the weight of the pieces (might have to look into new pieces)
 - Need a gate voltage of 4V to operate the mosfet
 - Assigned to Ben
- Chess Tracker Code
 - Status: Working, Partially Integrated
 - Integrated with voice recognition and motor driver code
 - Takes chess moves as inputs and calculates required distances to give to motor driver
- Voice Recognition Code
 - Status: Working, Integrated
 - Integrated with the Chess Tracker Code
 - Listens and takes voice input
- Motor Driver Code
 - Status: Working, Partially Integrated
 - Integrated with Chess Tracker Code
 - Can move the center piece in both the x and y directions to place magnet in desired place
- Microphone System
 - Status: In Progress, Not Integrated
 - Can record wav files and play them through headphone jack on Pi
 - Write program that will output what the Voice Recognition code needs
 - Due: 3/20/20
 - Assigned to Delany
- CoreXY
 - Status: In Progress
 - Use 3D printer in Hesburgh to efficiently print sliders
 - Adjust center bar and electromagnet holder
 - Finalize CoreXY system tweaks
 - Due: 3/25/20
 - Assigned to Shae

