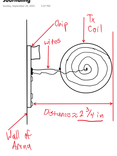

*Coil diameter ≈ 2 3/4 in.

- We shall mount the tx/coil on the wall as close to floor as possible to get as much extension of the wires connected to the coil. This will be to overlap with the rx on bottom of the robot chassis.

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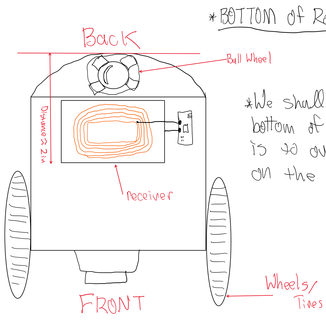
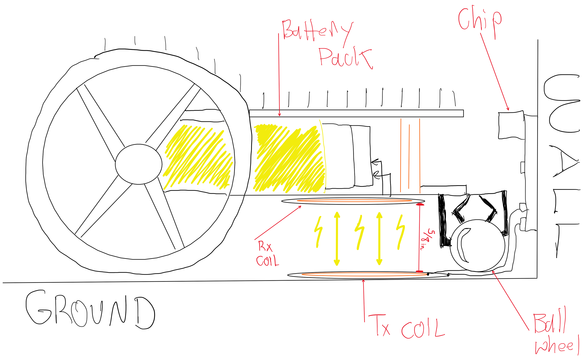
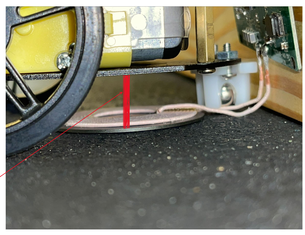
*BOTTOM of Robot

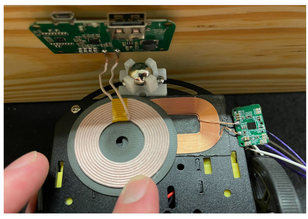


*We shall mount the rx on the bottom of the robot's chassis. This is to overlap with tx location on the floor.

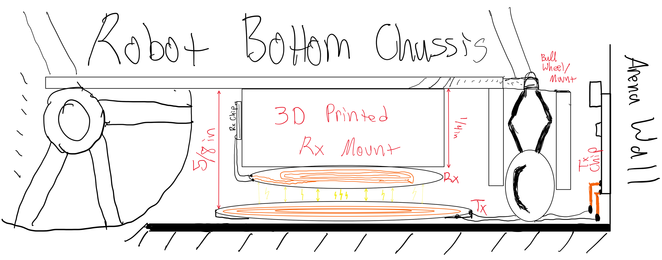


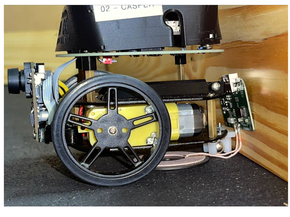


≈ 5/8 in.



* We shall require the robot to back up into a sort of "parking space" as close proximity to the arena wall.
This will provide ample amount of space and overlap of the rx and tx to charge.





* As a designer the team shall create a 3D cad file to create the '3D Printed Rx Mount'. The mount will close the gap between the rx being too far from the floor mounted tx.

* This achieves the Transmission distance for the Qi Wireless Charging Transmitter (tx) and Receiver (rx) equaling 2-8 millimeters (mm). That is ≈ 1/8 in → 3/8 in, so the distance should be within proximity to effetively charge the battery pack.