Assembly Instruction Supplemental Images:
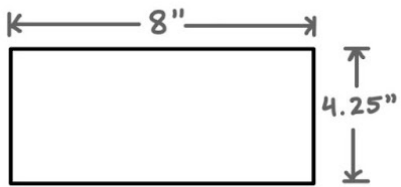

Figure 1: Cardboard Base Side Wall (1)
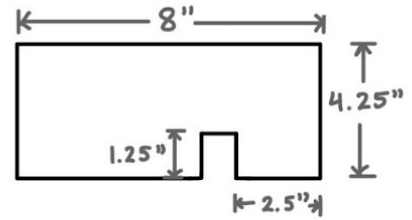

Figure 2: Cardboard Base Side Wall (2)
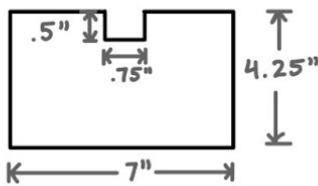

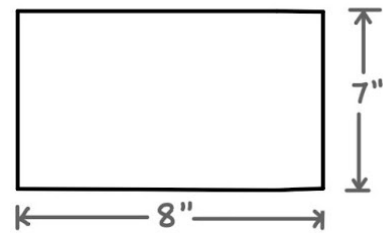*Figure 3: Cardboard Base Front Wall*

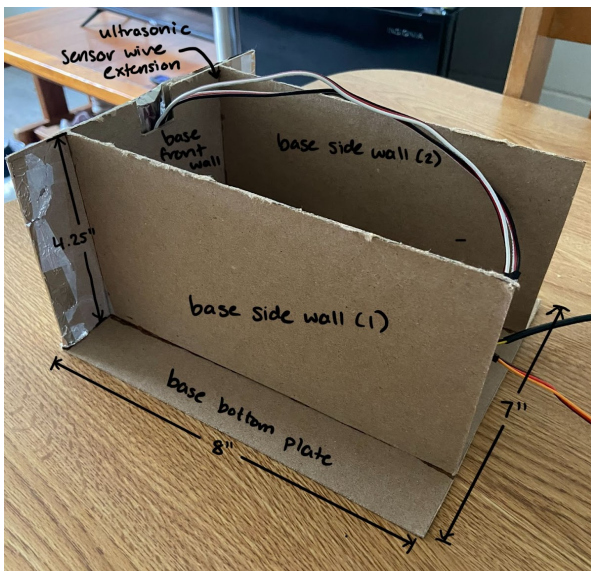*Figure 4: Cardboard Base Bottom Plate*
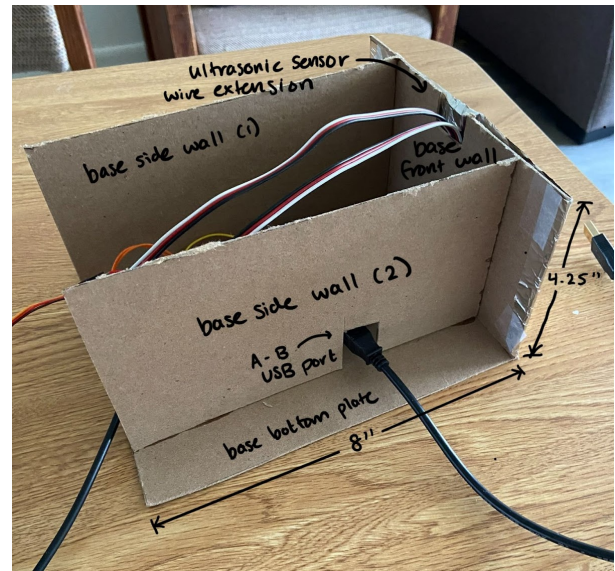

Figure 5: Assembly of base of robot

Figure 6: Other side of Assembly of robot
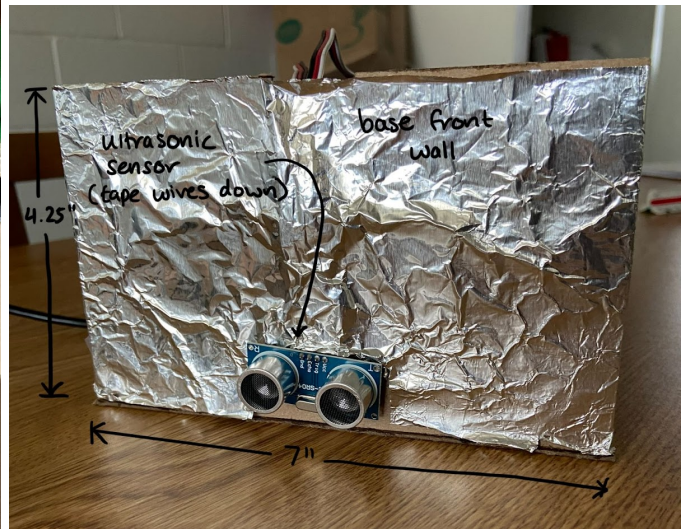
Figure 7: Ultrasonic Sensor Wire Taped Down
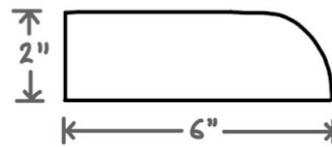

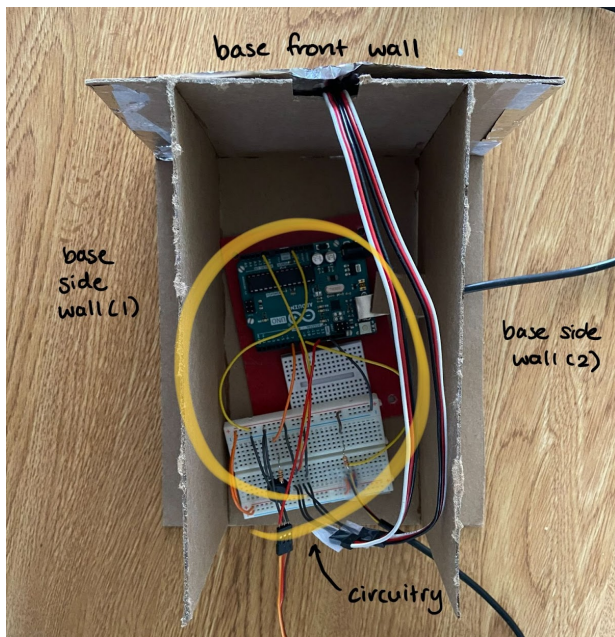*Figure 8: Front Wall Assembly w/ Ultrasonic Sensor*

Figure 9: Circuitry with Finished Base Mount

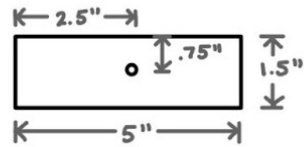*Figure 10: Cardboard Slider Crank Wall*

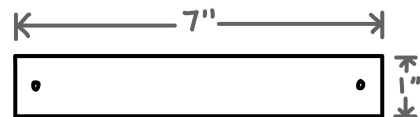*Figure 11: Cardboard Slider Crank Pusher*

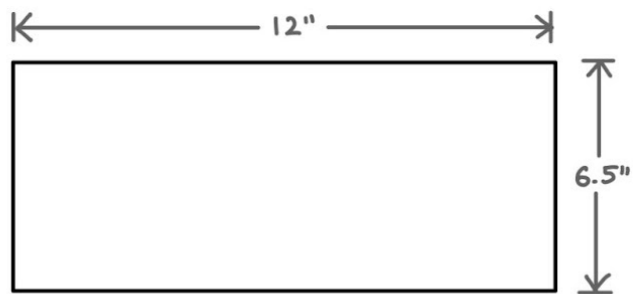*Figure 12: Cardboard Slider Crank Arm*
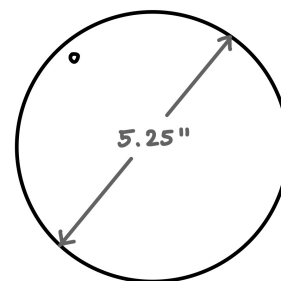
Figure 13: Cardboard Slider Crank Base

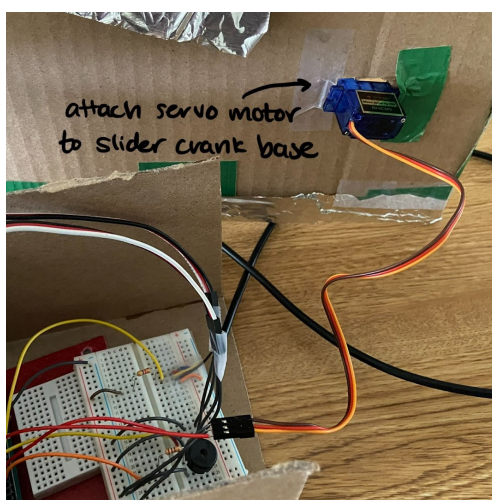*Figure 14: Cardboard Slider Crank Wheel*
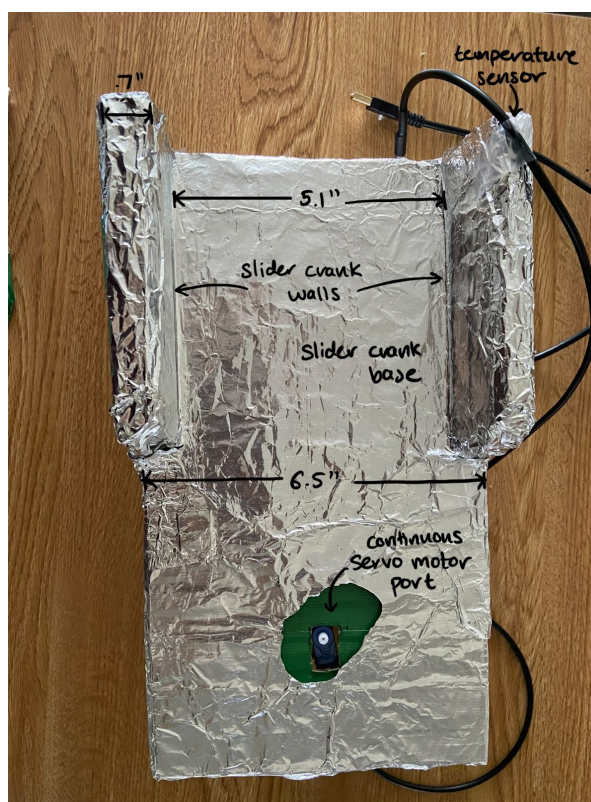

Figure 15: Servo Motor Attachment to Base

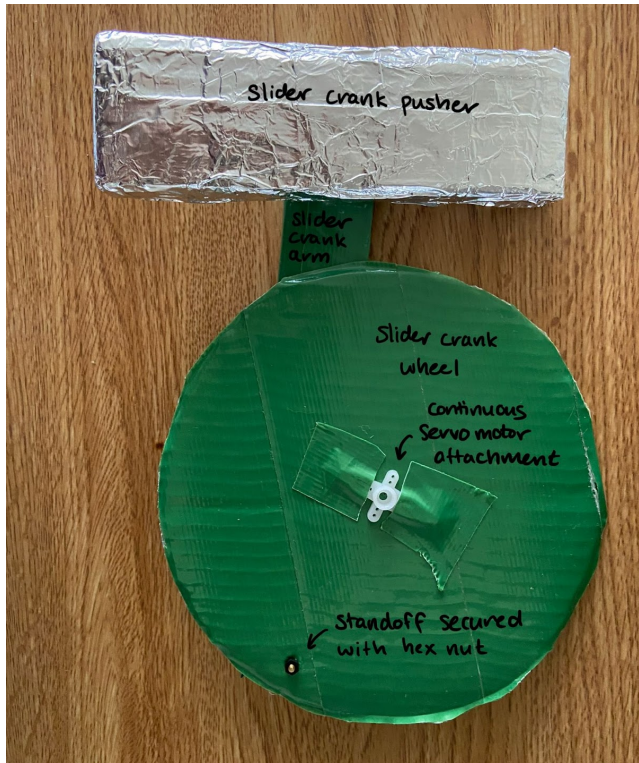*Figure 16: Slider Crank Wall Attachment, Foil Overlay*

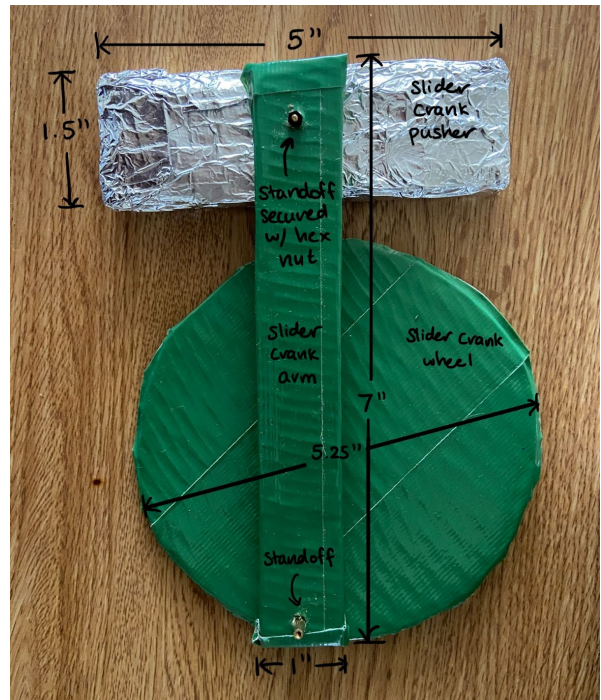*Figure 17: Bottom of Slider Crank Mechanism*

Figure 18: Top of Slider Crank Mechanism

Figure 19: Finished Slider Crank Mechanism

Figure 20: Finished RoboRamen©

Figure 21: Finished RoboRamen© with Ramen

IV.   Appendix D: Commented Arduino Code

```
// C++ code
//This code is for my RoboRamen. The ultrasonic sensor senses how far it is from the
//hot pot and causes the red LED light to turn on if it is closer than 4 cm to the hot pot.
//The temperature sensor, when it senses 100 degrees Celsius or the water boiling,
//causes the servo motor to turn (which operates a slider-crank mechanism) that pushes
//the ramen noodles into the pot. A timer is set from there with the delay function and
//after it is done, the alarm goes off to alert that the ramen is done. The loop for the code
//stops after that as well.

#include <Servo.h>
#define NOTE_B0  31
#define NOTE_C1  33
#define NOTE_CS1 35
#define NOTE_D1  37
#define NOTE_DS1 39
#define NOTE_E1  41
#define NOTE_F1  44
#define NOTE_FS1 46
#define NOTE_G1  49
#define NOTE_GS1 52
#define NOTE_A1  55
#define NOTE_AS1 58
```