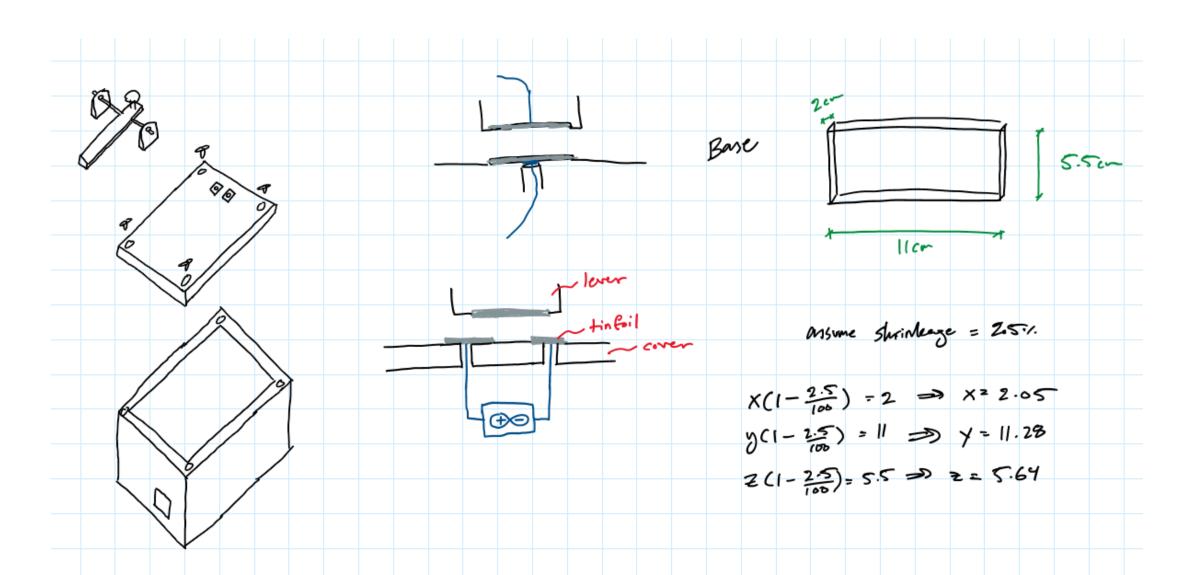
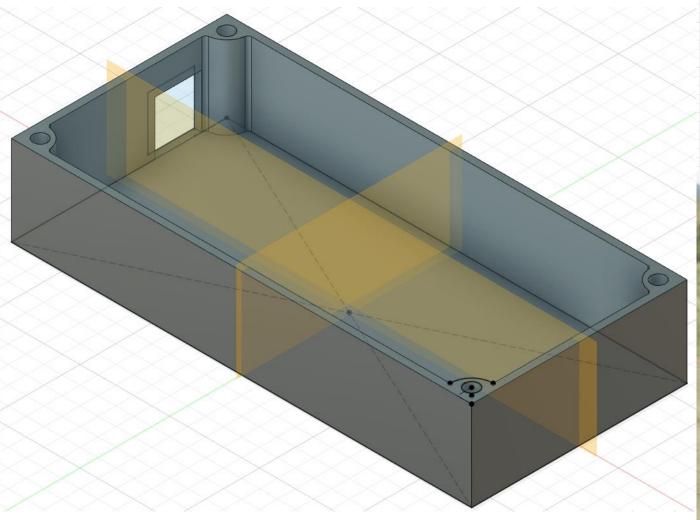
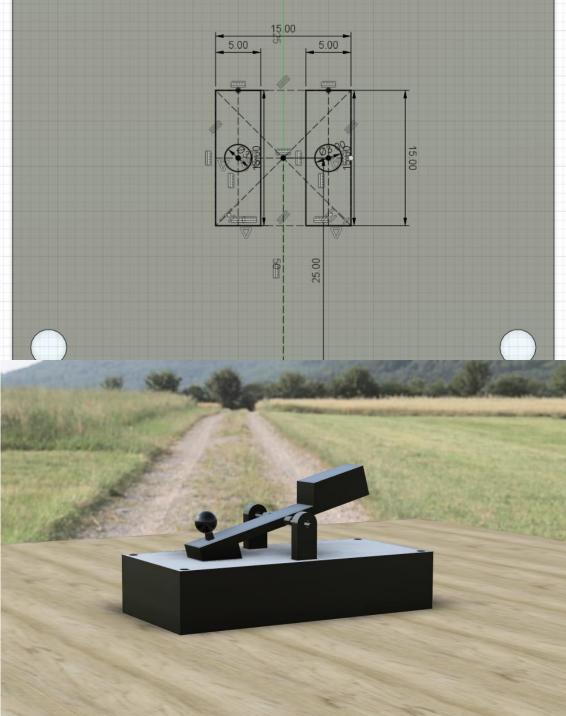
Sketches

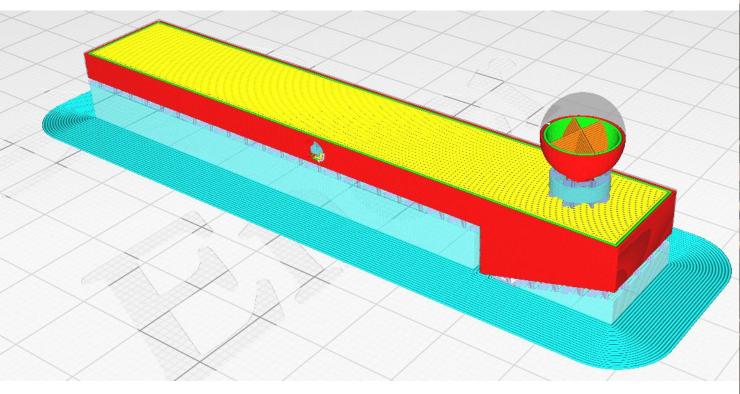


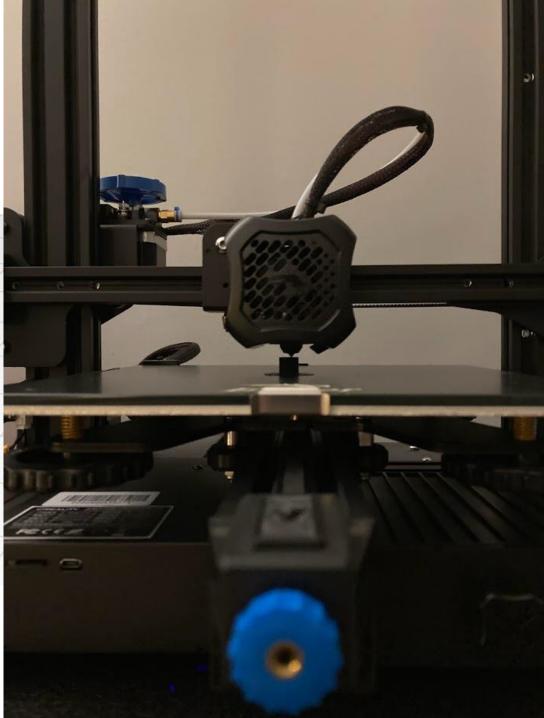
Fusion 360 Drawings





3D Printing





Programming

```
import serial
     import keyboard
     from datetime import datetime
     # Connect to Arduino
     port = "COM3"
     baud = 9600
11
     arduino_serial = serial.Serial(port, baud)
12
13
     # Confirmation message
     dt = datetime.now().strftime("%Y-%m-%d %H:%M:%S")
     print("STARTED READING " + str(port) + " (BAUD=" + st
15
17
     while True:
         # Read serial and output keypress
         incoming_data = str(arduino_serial.readline())
         keyboard.write(incoming data[2])
21
         incoming data = ""
22
```

```
// Print character
   if (release time >= read time) {
      release time = 0;
      keyPress();
     pattern = "";
    release time++;
 // Button currently pressed
  else if (state == 1) {
   if (release time != 0) {
       Serial.print("RELEASED: ");
      Serial.println(release time);
     release time = 0;
   press time++;
  Serial.println(pattern);
void keyPress() {
 int i = 0;
 // Loop through all defined (https://fc
 for (i=0; i<sizeof patterns/sizeof patt
    String candidate = patterns[i];
   if (pattern == candidate) {
      break;
 if (i != sizeof patterns/sizeof pattern
   Serial.println(letters[i]);
```

Assembly





Result

