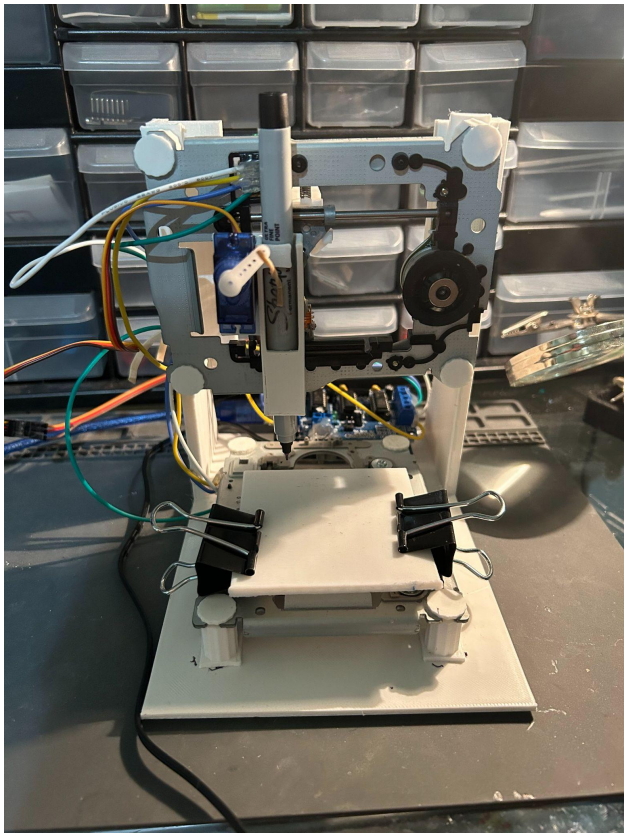
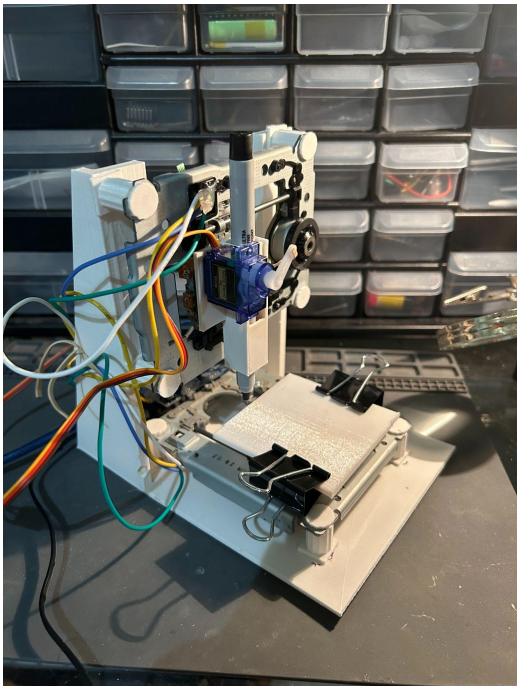
Saibamaze December 2022

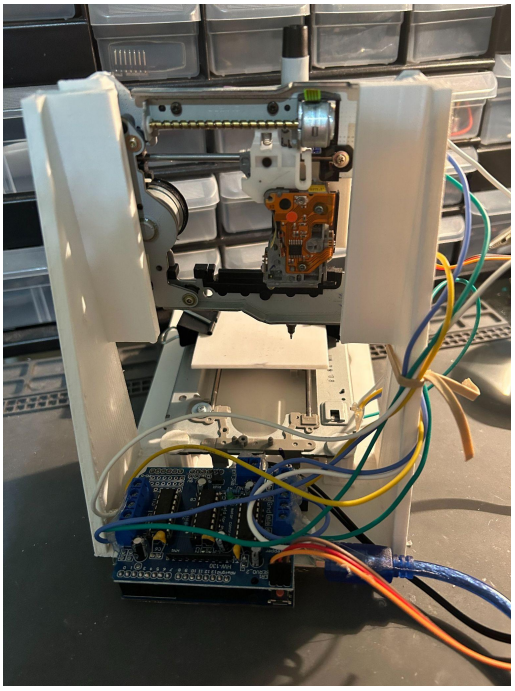
**CNC Machine**

Please note: I did not write the code for this project, nor did I come up with the idea. I created the housing for the DVD drives to make this project very easy to put together with a 3D printer.

Here it is constructed:

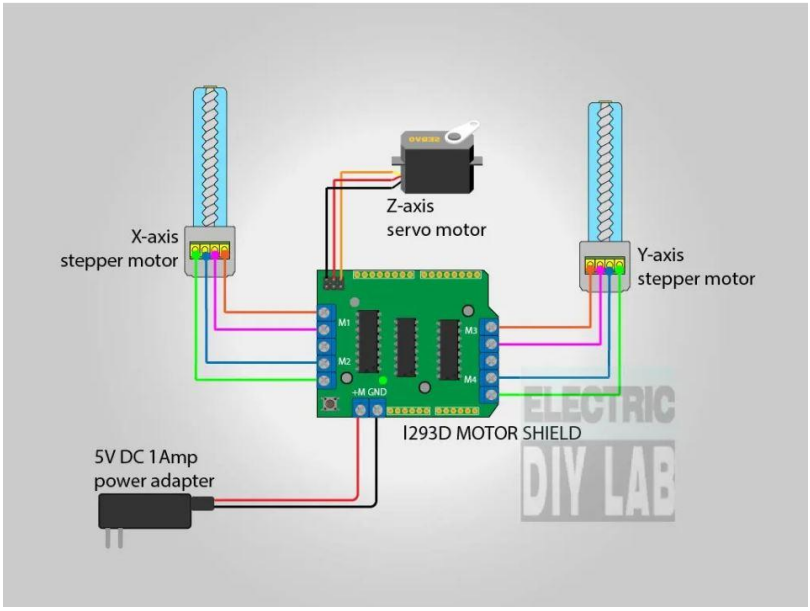






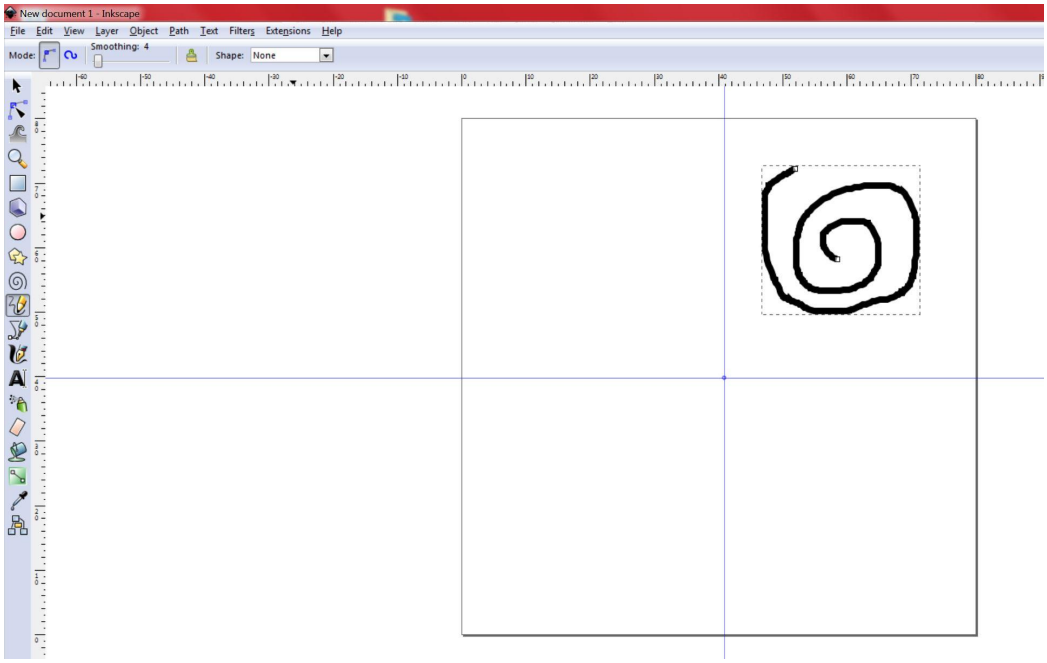
Note: Everything is held together with super glue and hot glue. I hot glued the Arduino Uno directly to the housing. I super glued the build plate as well as the sharpie housing directly to the DVD drive. I estimated and eyeballed where everything should be. The bottom DVD drive is ~.75 inches from the front and ~.67 inches from the left side (viewing it from the front).

Circuit diagram:



There are plenty of tutorials online on how to make this, so I will spare you. Here are some tips though:

-I used inkscape to make my picture to draw and save it as a gcode file. The CNC plotting area is 40mm x 40mm, however in inkscape create a document that is 80mm x 80mm. You than only draw your picture in the top right 40mm x 40mm square, like this:




-Once the gcode file is created, I used pronterface to actually connect to the CNC and print. I made the dimensions of the build plate in pronterface 80mm x 80mm, and then loaded my gcode file, not touching anything else. Im not sure why this works, but other sizes dont work for me.

Enjoy!