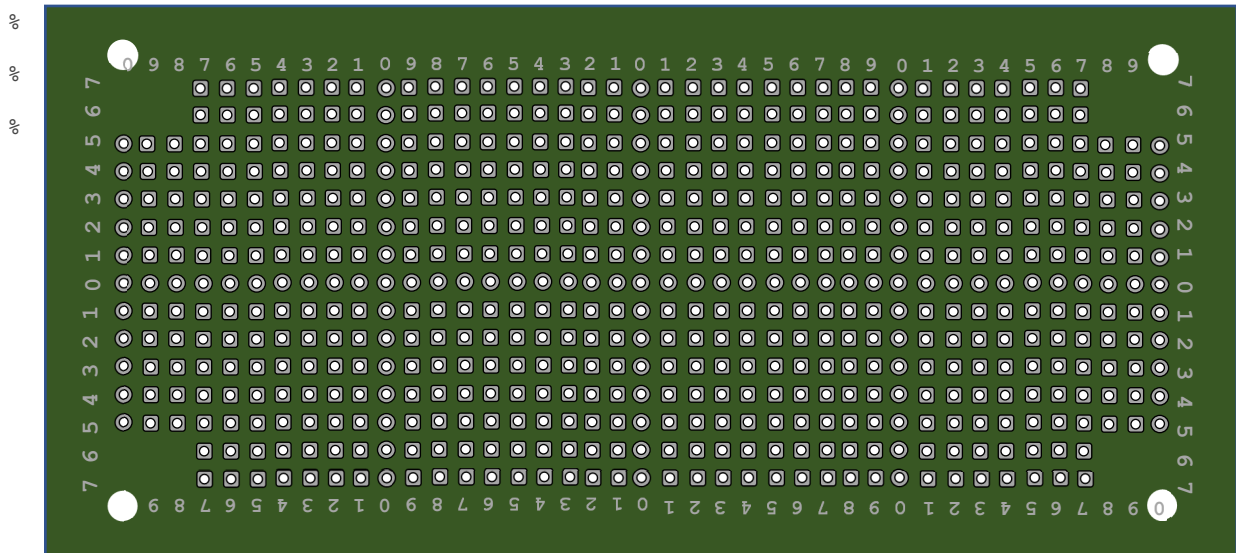


Photo Turntable Controller Prototype Board Connections

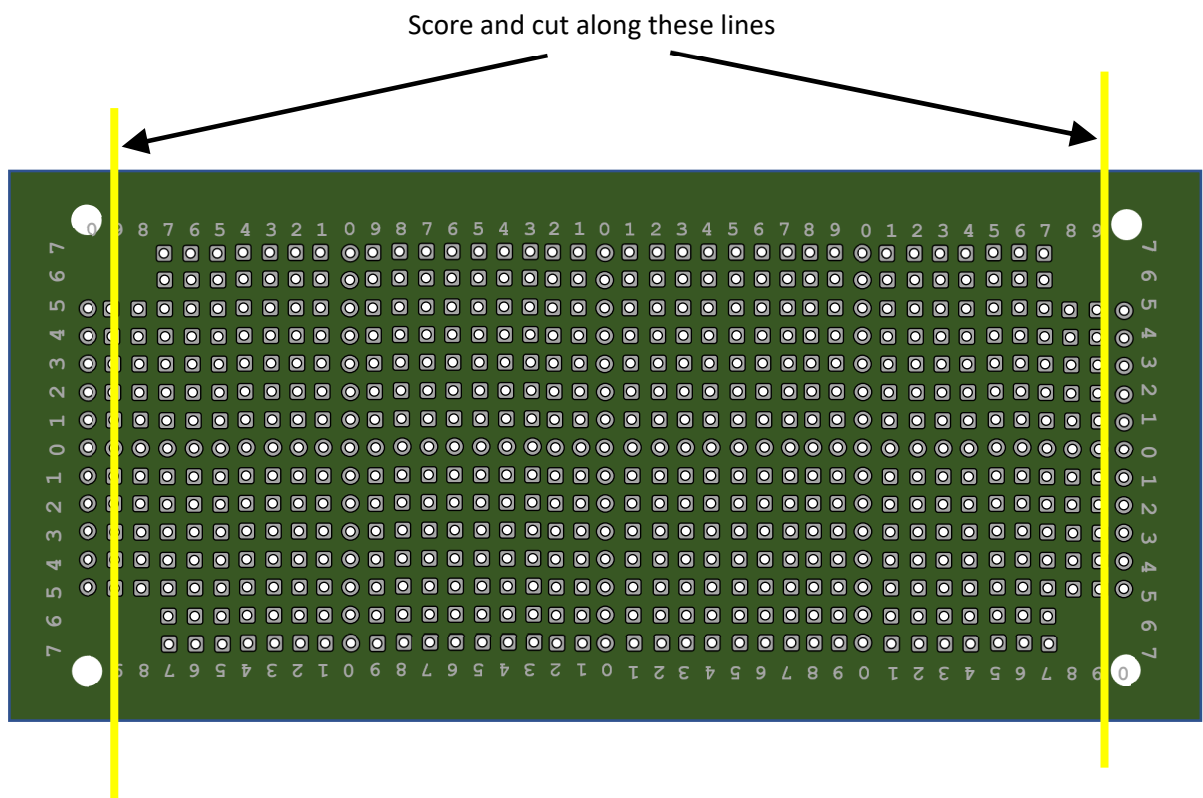
Step 1:

Locate your prototyping board (Bud Industries EXN-23402-PCB, DigiKey stock number: 377-2625-ND)



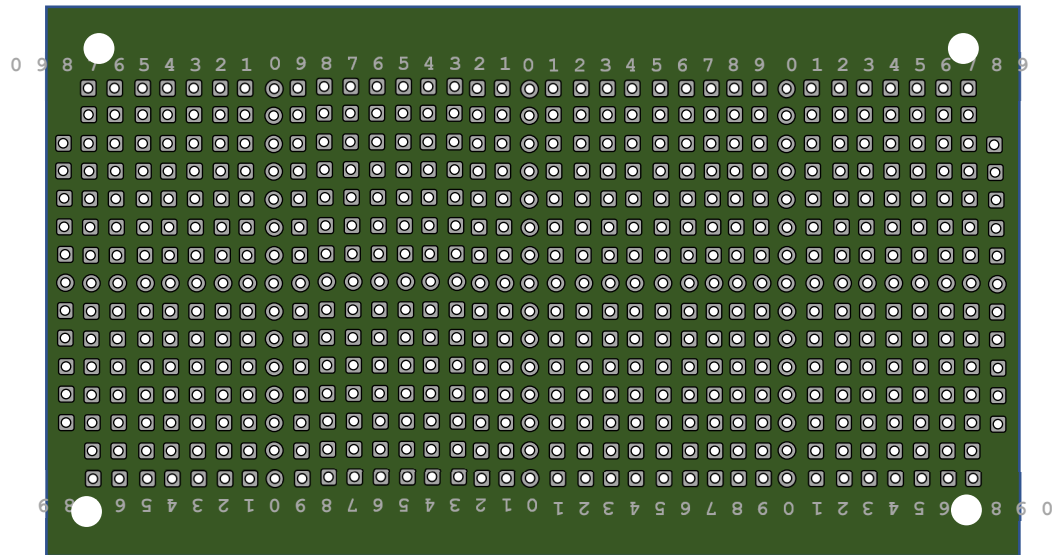
Step 2:

Cut the board to the size shown. The easiest way is the 'score and snap' method, using a craft knife and ruler. Score both sides of the board through the centre of the holes (wear safety glasses) and snap over the edge of a table or similar



Step 3:

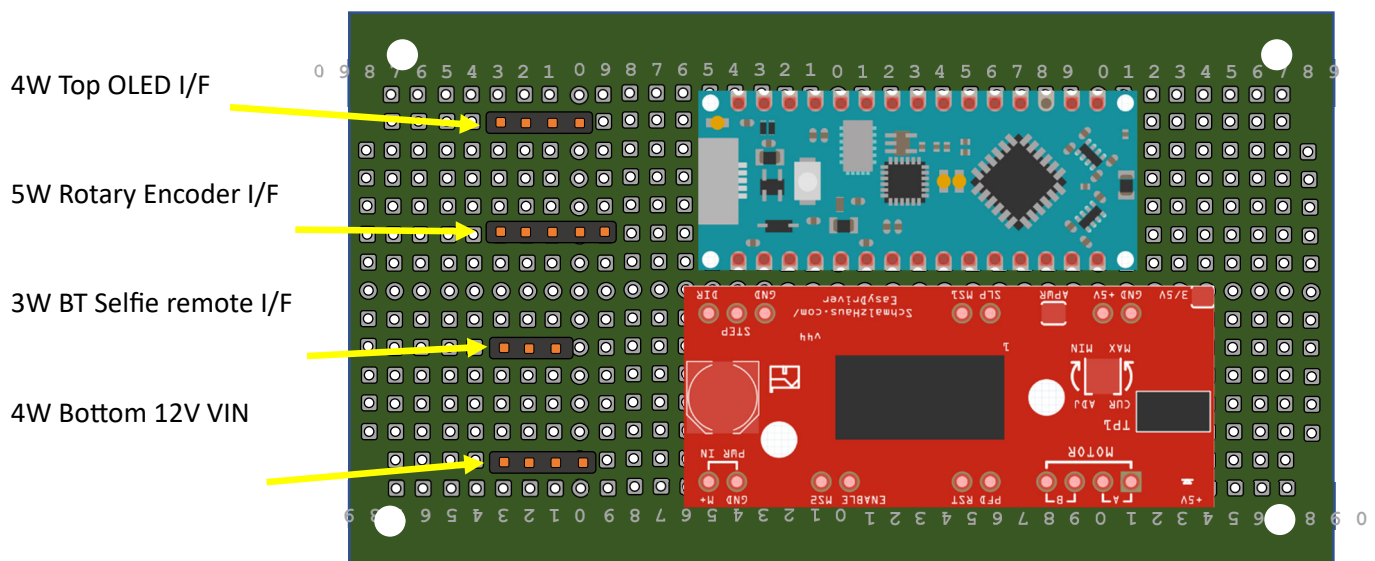
Drill 4 x 3.5mm holes 88.5mm apart horizontally and 44.5mm apart vertically. Note: One of the 3d printed files supplied is a drilling template that can be used to make this step easier.



Step 4:

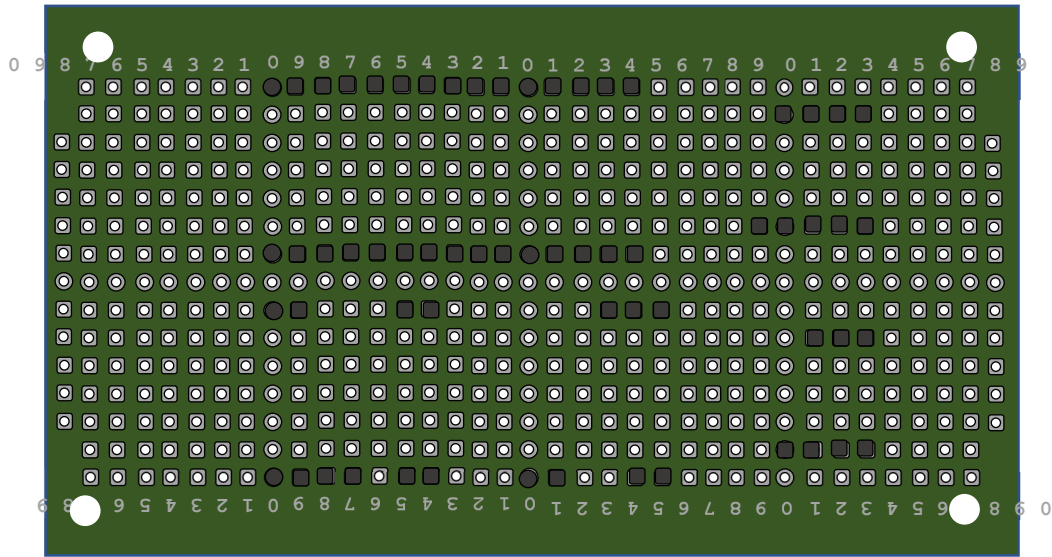
Solder the Arduino Nano every and Easydriver board in place as shown below (top view). I suggest using socket strips for the Arduino board so it can be removed for programming, etc. Also fit headers in the four positions shown for the OLED, encoder, selfie remote and 12V DC interfaces.

2.54mm headers:



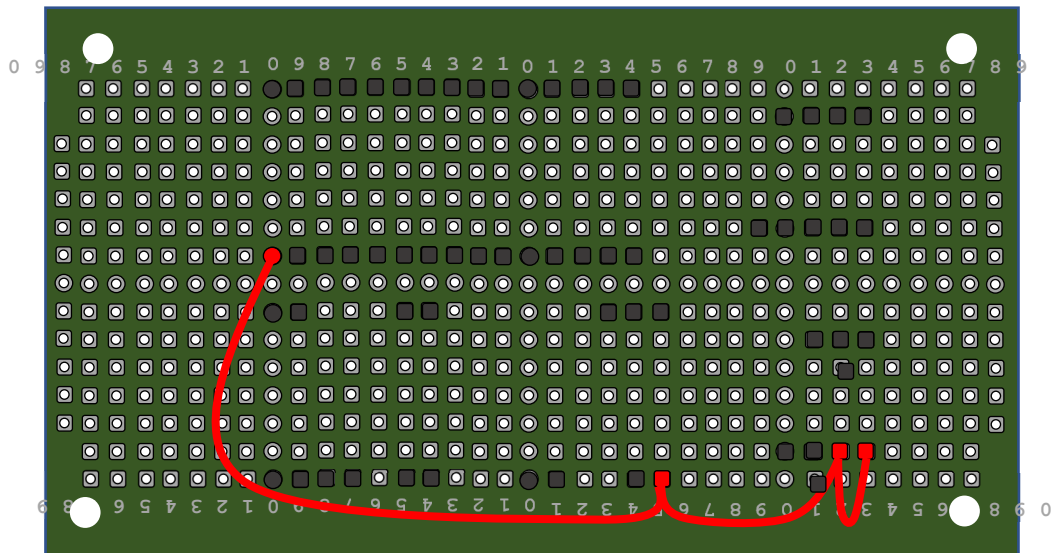
Step 5:

After soldering the solder joints on the other side of the board (bottom) are as follows:



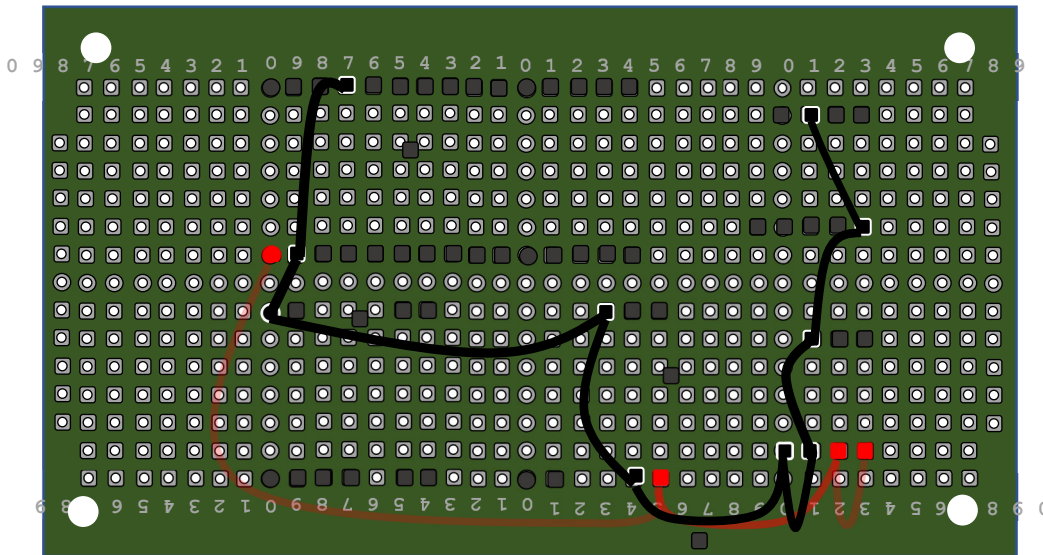
Step 6:

Using suitable hookup cable solder the +12V Vin connections on the bottom of the board, as shown in red, below:



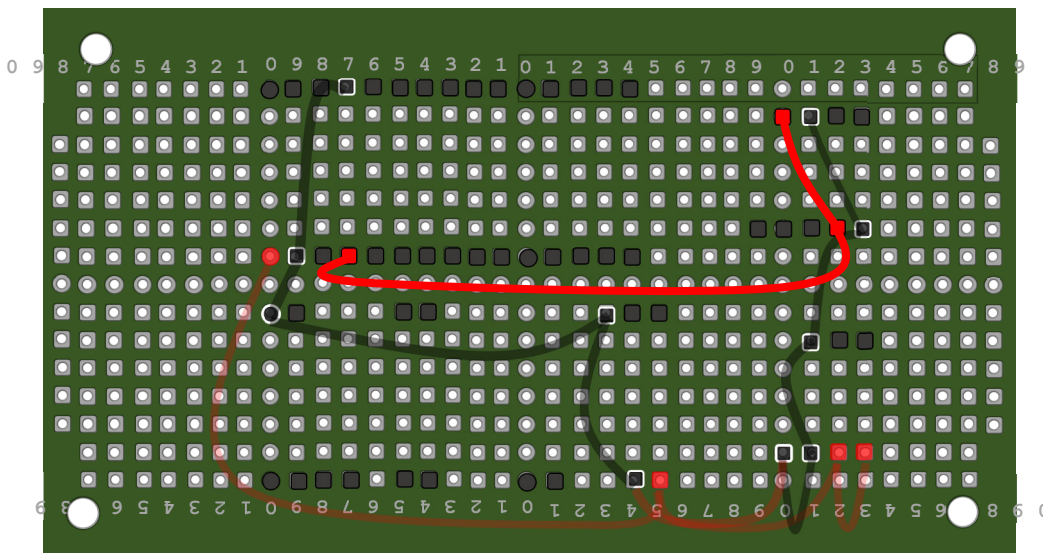
Step 7:

Using suitable hookup cable solder the GND connections on the bottom of the board, as shown in black, below:



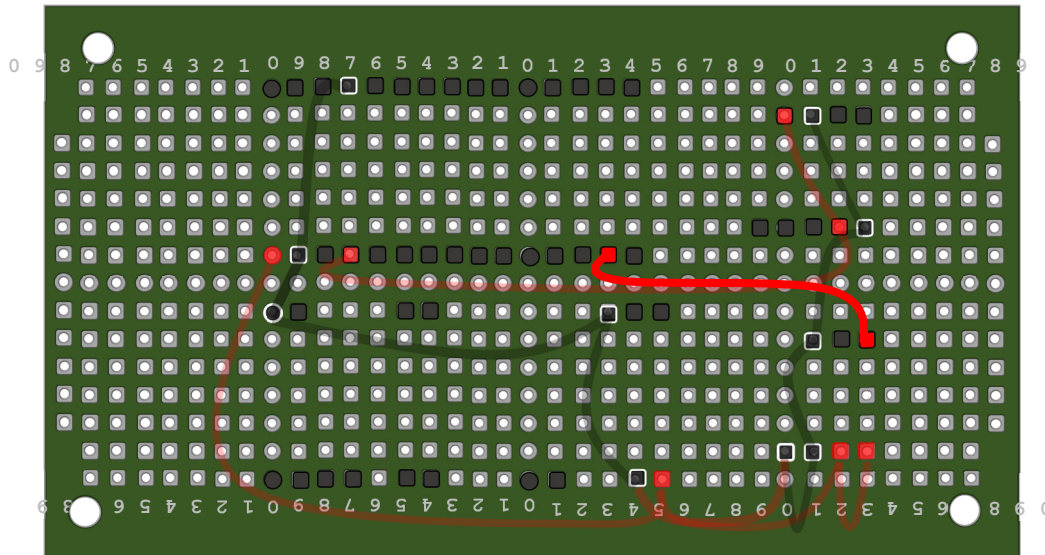
Step 8:

Using suitable hookup cable solder the +5V connections on the bottom of the board, as shown in red, below:



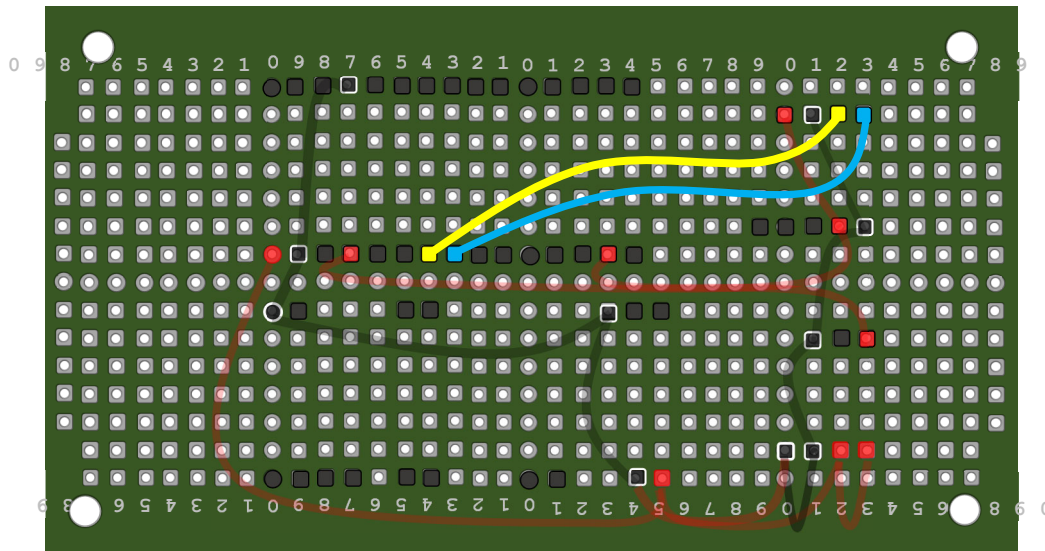
Step 9:

Using suitable hookup cable solder the +3.3V connections on the bottom of the board, as shown in red, below:



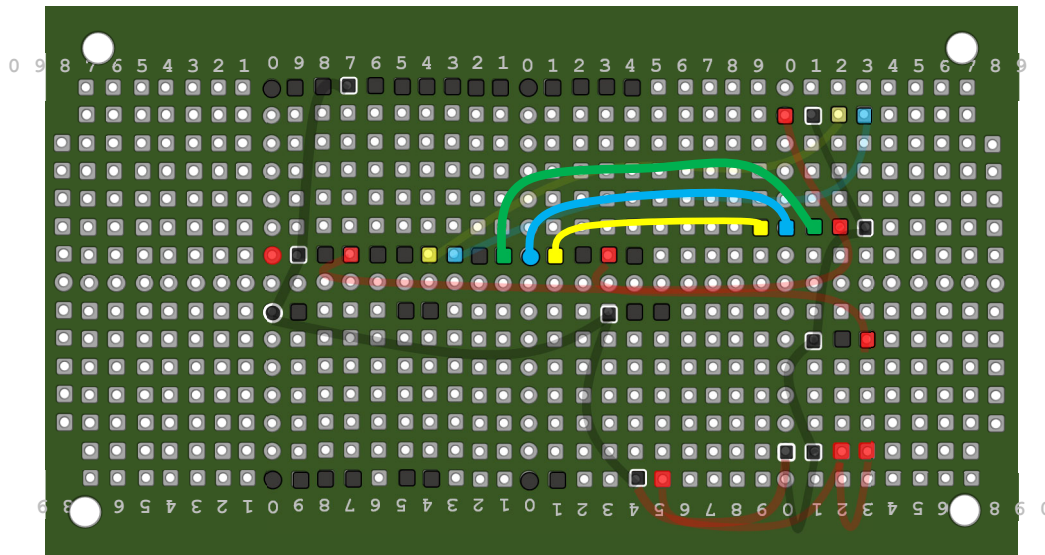
Step 10:

Using suitable hookup cable solder the OLED display i2c connections (Yellow SCL to Nano A5, Light Blue SDA to Nano A4)



Step 11:

Using suitable hookup cable solder the Rotary Encoder connections (Yellow CLK to Nano A0, Light Blue DT to Nano A1, Green SW to Nano A2)



Step 12:

Add the potential divider (1K0 and 2K2 resistors) connected between Nano Pin 7 (purple), the switch pin of the Bluetooth Selfie Remote (orange), and ground (black) with suitable hookup wire, as shown below:

