CLOTHESPIN POGO CLAMP TUTORIAL
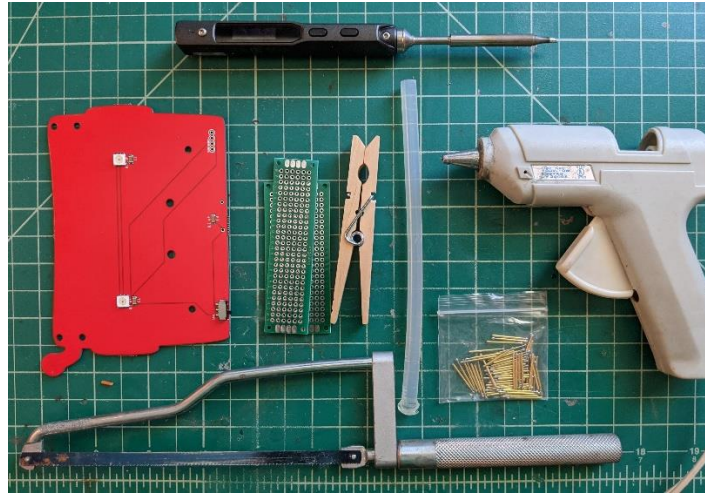

MATERIALS NEEDED:

- Clothespin
- Pogo pins (P75-E2)
- Board with pinout desired
- Saw
- Hot Glue gun and stick (or other means of glue, epoxy, etc)
- 2 prototype boards
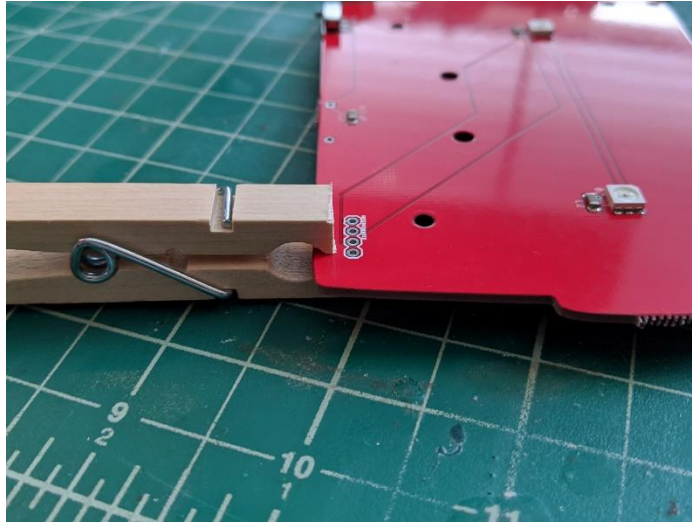- Soldering iron and solder

STEP 1

Saw off tip of one leg of the clothes pin. Make sure to leave just a bit of contact surface so that the pin can close normally. Save the cut off scrap, it will be used later.
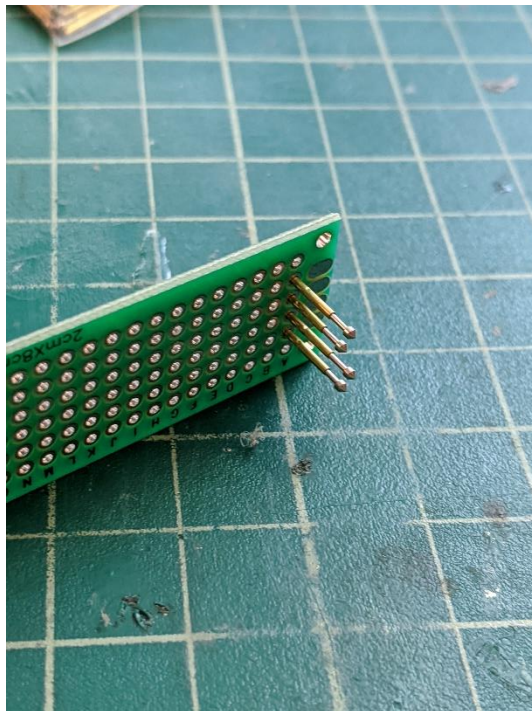
STEP 2

Clamp the clothespin to the board in the position you would like it to be in when complete.
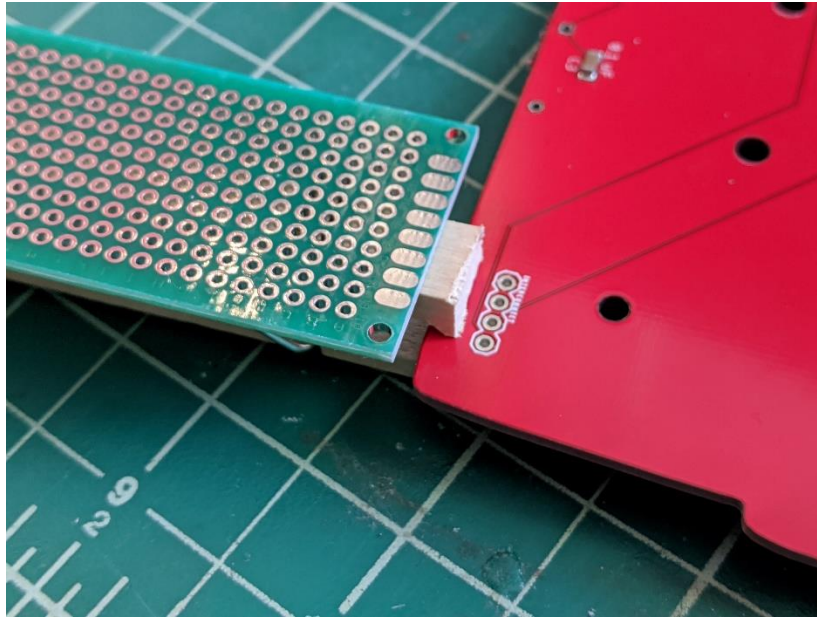

STEP 3

Insert pogo pins into a prototype board in desired pinout configuration. In this example case, 4x1.
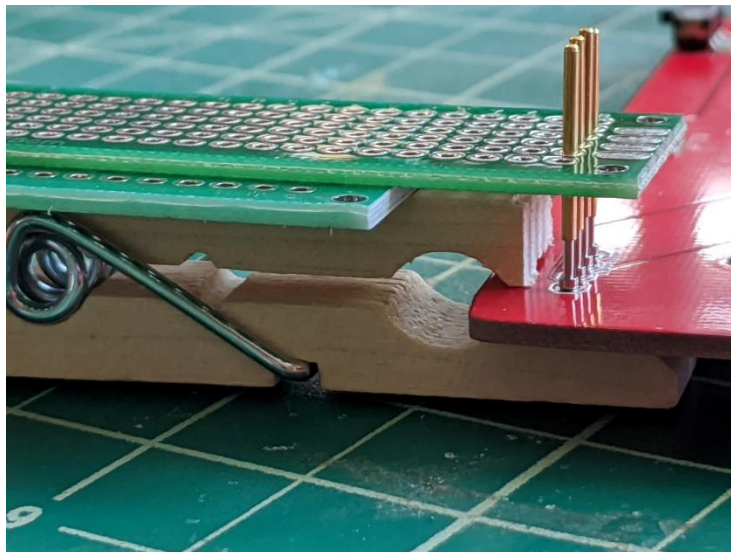
Step 4

Place the second prototype board (the one without pogo pins) onto the clothes pin clamped in position. It will be acting as a spacer for soldering. This way the pogo pins can rest in position for soldering, to ensure alignment, without compression. More on that later.
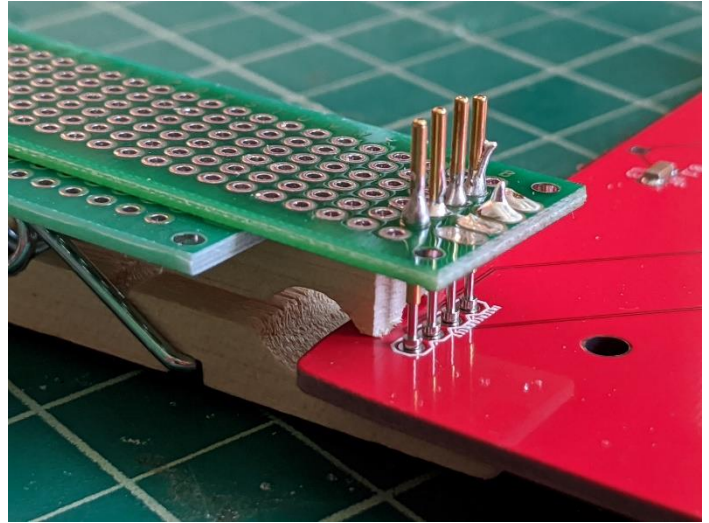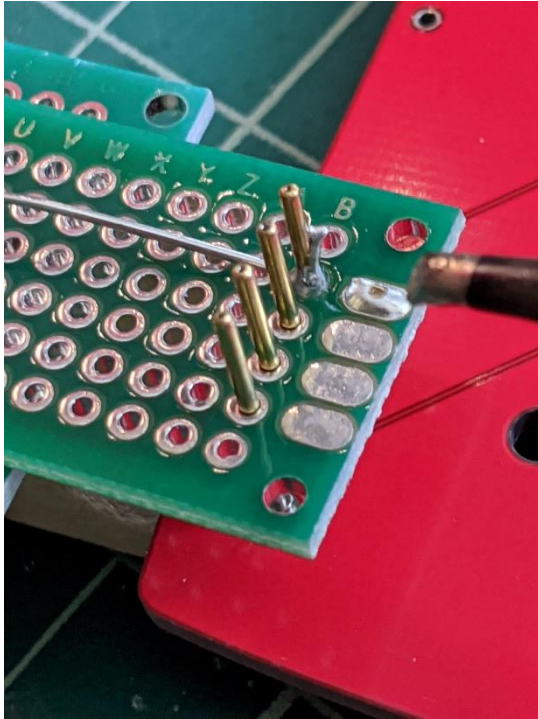

Step 5

Place the prototype board with loose pogo pins into position on top of the spacer prototype board. This can be tricky. Make sure the pins fall into their place and that straight up and down. Not kicked off to one side or another. Really make sure things are well aligned!
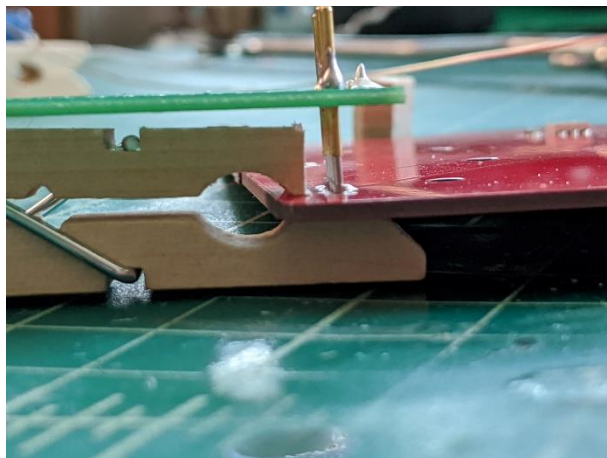
STEP 6

Delicately solder the pogo pins. Make sure to not move anything as you are doing this process. Go slow, one at time. Ensure all is aligned before going to the next pin.
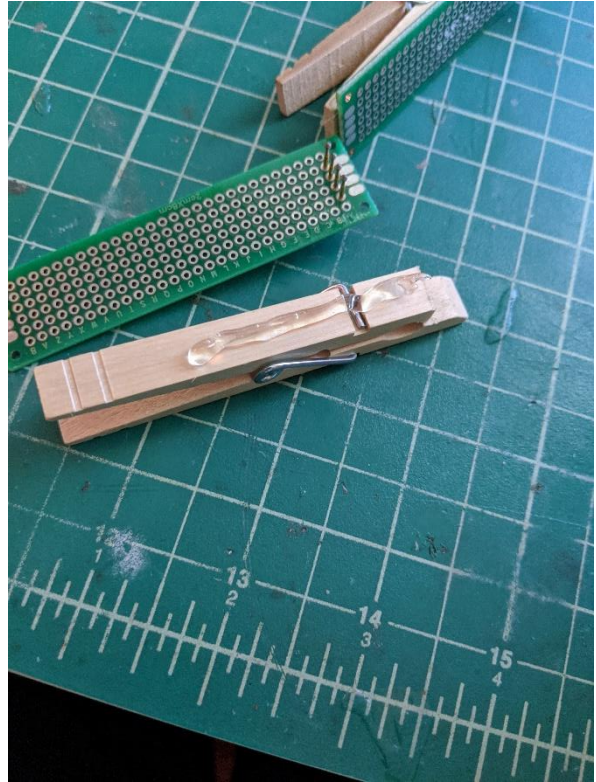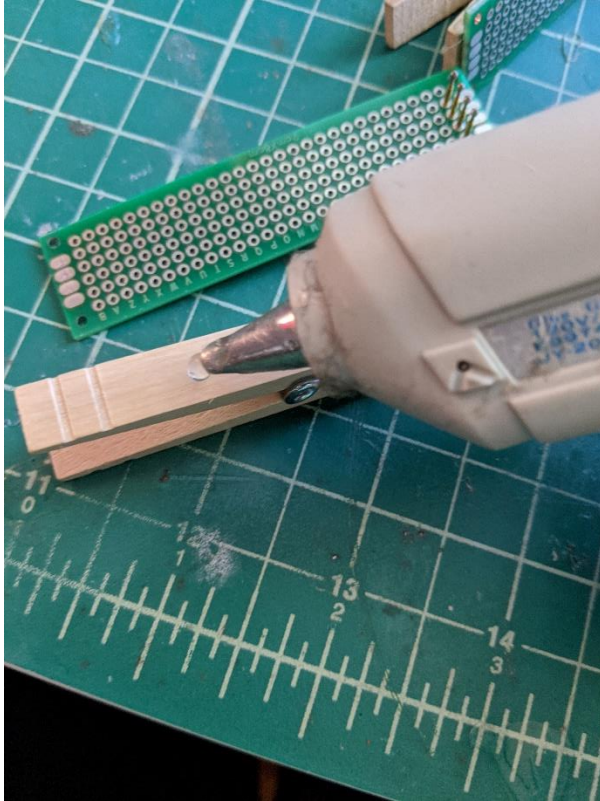

STEP 7

Remove the prototype board spacer. With it removed, you can now see its purpose more clearly. When we affix the prototype board with pogo pins to the clothes pin, it will now have a slightly compression to the pogo pins when in the clamped position. This will ensure it works properly.
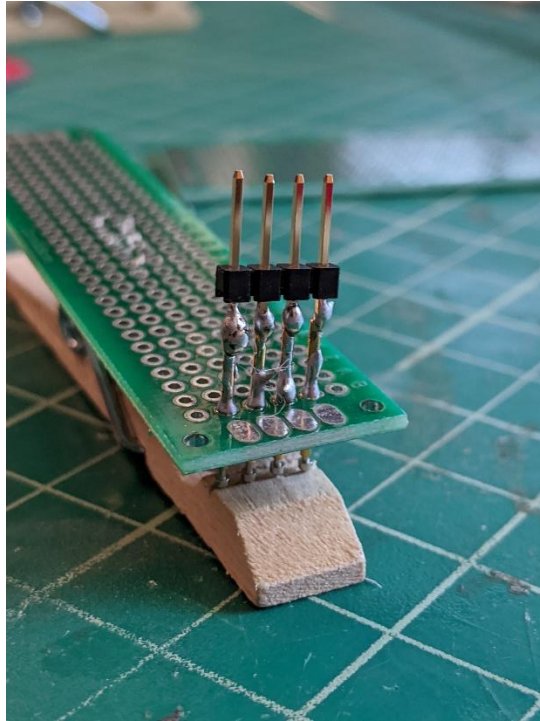
STEP 8

Hot glue the prototype board with soldered pogo pins to the clothespin. Before you begin, put the scrap bit of clothespin you saved early into the clothespin. This way when you glue it, you can press the prototype board into place without the pogo pins compressing into the bottom part of the clothes pin.

STEP 9

Solder header pins into place so that jumper wires can be used. Make sure nothing is shorted!

COMPLETE!