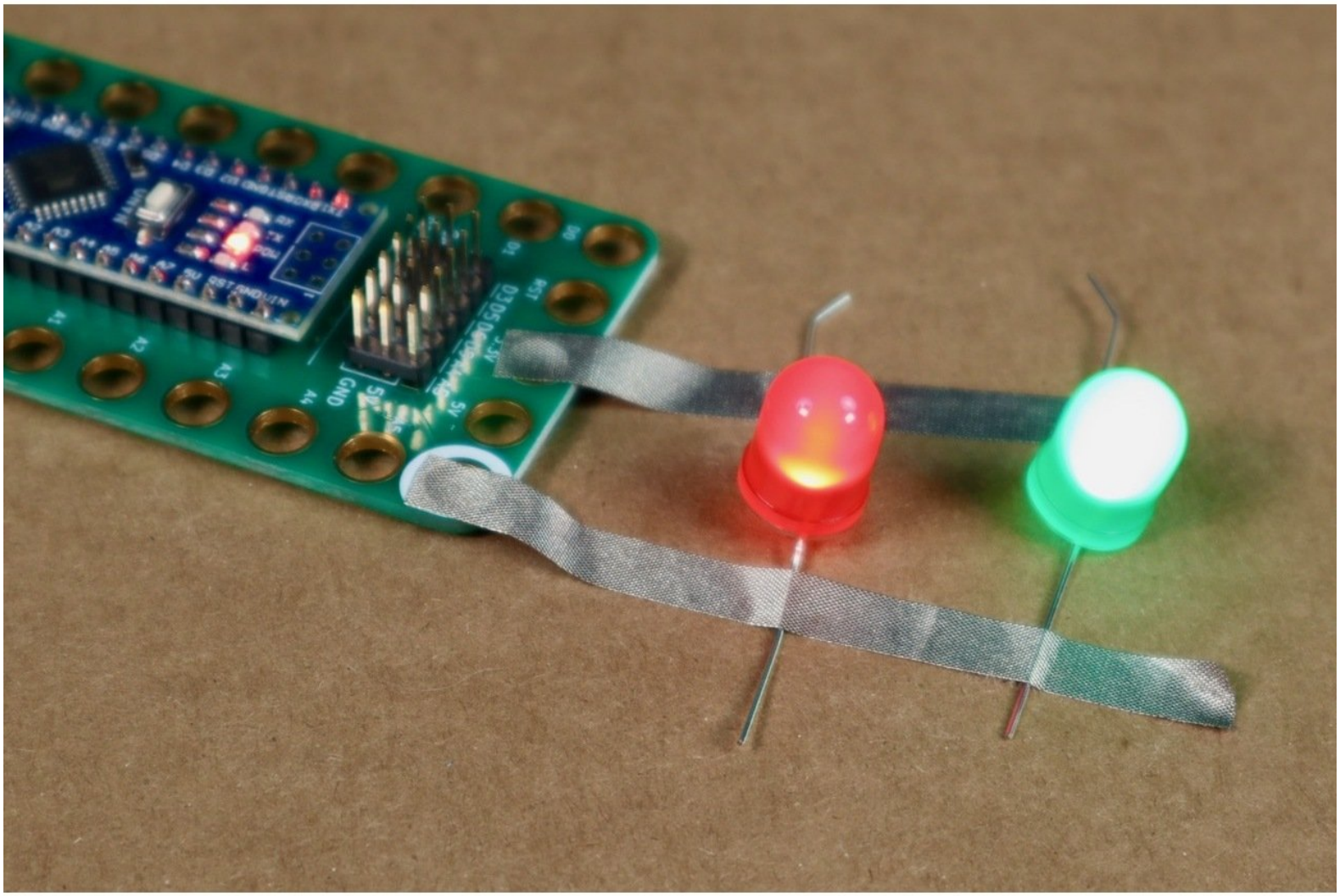
Programming to Paper Circuits Connections

How to use Crazy Circuits components in a Paper Circuits environment.

Written By: Joshua



INTRODUCTION

Crazy Circuits was designed to work with LEGO components, but our large programmable boards also work quite well in a Paper Circuits project with standard electronics components. This guide will show you some tips and tricks for making those connections.

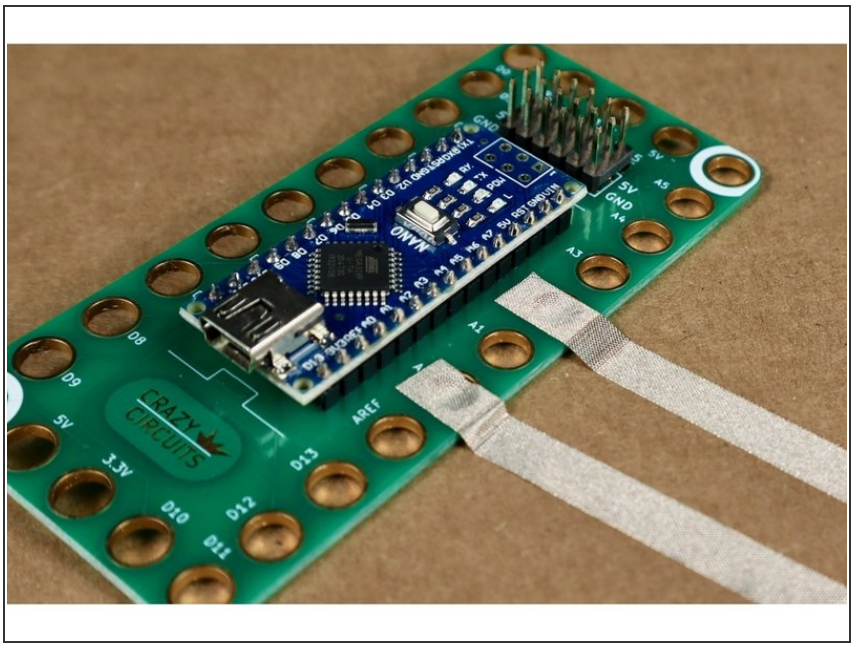
TOOLS:

- Scissors (1)

PARTS:

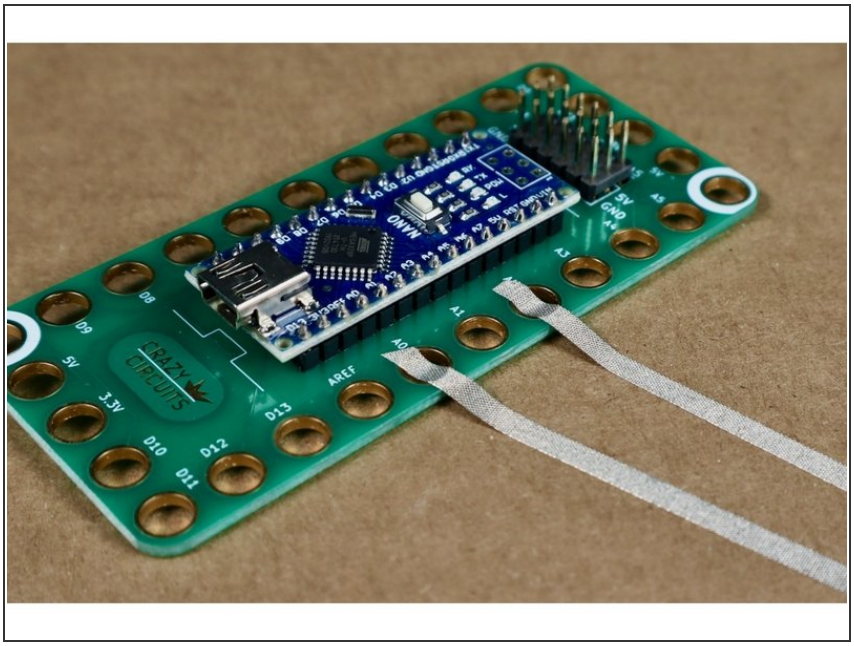
- Crazy Circuits Bit Board (1)
- Crazy Circuits Robotics Board (1)
- Crazy Circuits Invention Board (1)
- Jumbo 10mm Diffused LED (1)
- Maker Tape (1)
  1/8" Wide
- Paper (1)

Step 1 — Tape on Top 1/4th inch Method



- We recommend using 1/4th inch Maker Tape. If possible, only use every other hole on the board in order to give yourself some extra space.
- Run tape over the top of a pin hole on a Crazy Circuits Board. Take care to ONLY touch the copper ring around the pin you wish to use, not any other.
- Press firmly to make a solid connection.
- This is a short term solution. The tape will lose its stickiness over time and come off. Great for a few days or weeks, but not a permanent solution.

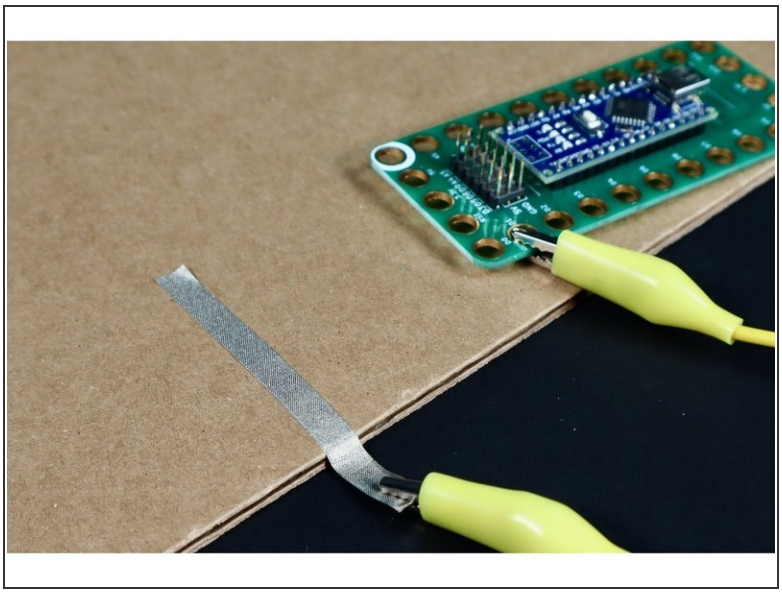
Step 2 — Tape on Top 1/8th inch Method

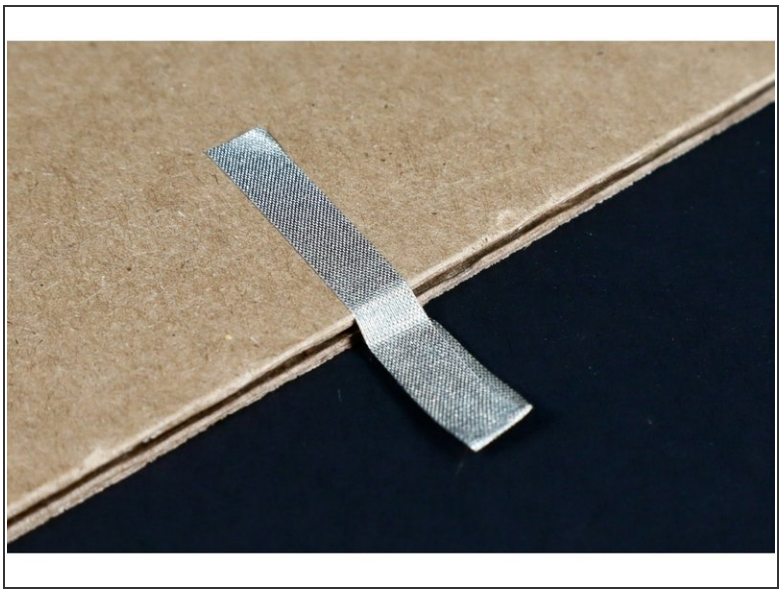


- Run 1/8th inch Maker Tape so that it runs over the TOP of a Crazy Circuits Board.
- Make sure it's touching the copper colored ring around the outside of the pin that you wish to use.
- Don't allow the the tape to touch a different copper ring.

ⓘ This is a short term solution. The tape will lose its stickiness over time and come off. Great for a few days or weeks, but not a permanent solution.

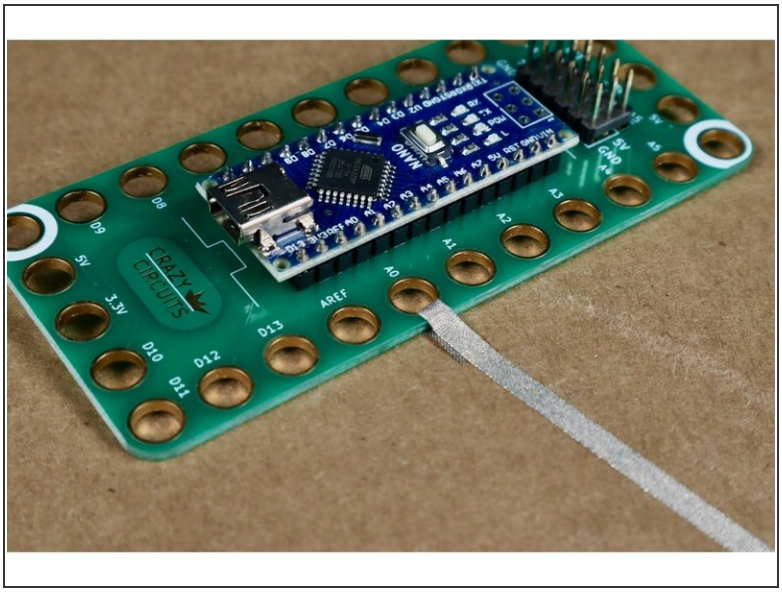
Step 3 — Alligator Clip Method

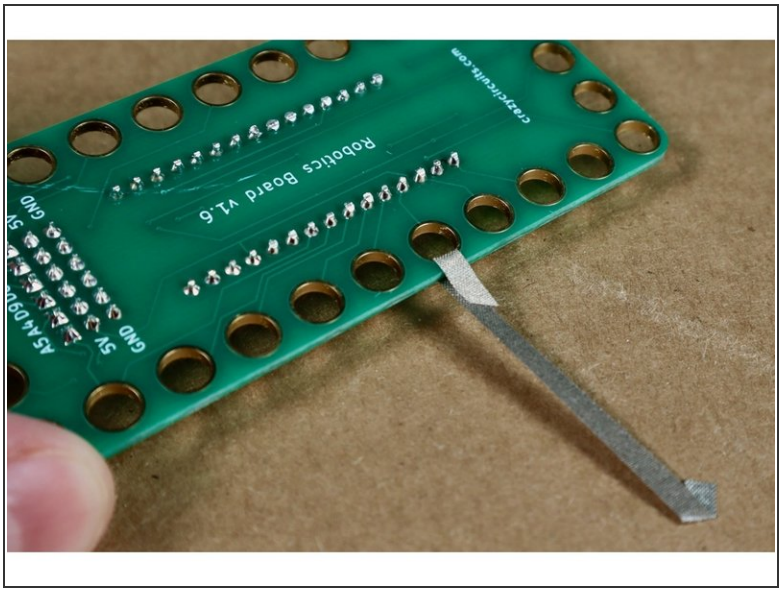




- When making a project, run tape to the edge of your project paper or cardboard.
- Wrap it around the end of the paper or cardboard so tape is on both sides.
- You can also run tape OFF the end of the paper or cardboard and fold it back onto itself. This gives some flexibility.
- Attach one end of an alligator clip to your Crazy Circuits board and the other to the end of the tape. This will make a solid connection that won't wear down or tear your paper.

Step 4 — Wrap Around Method

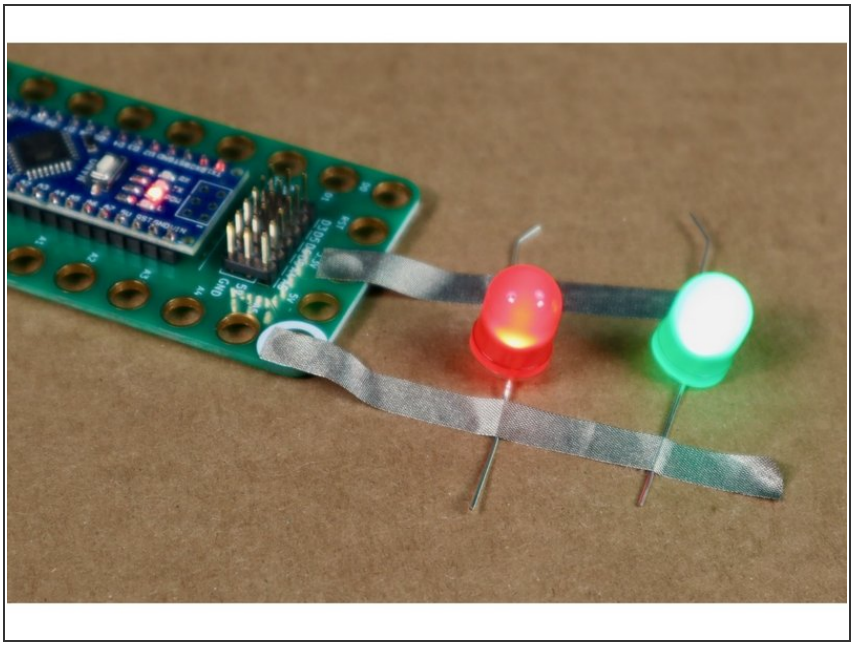




- Use 1/8th Inch Maker Tape to connect to an output pin on a Crazy Circuits Board.
- Go through the hole and wrap the tape around to itself.
- Press firmly on all parts of the tape that touch the board to create a solid connection.

⚠ Removing the tape can be really annoying using this method.

Step 5 — Standard Component Connections



- From here on out just run your conductive tape to your other components.
- Lay the Maker Tape over the top of the components connections/ legs. Press down firmly for a solid connection.
- Or put the component connections/ legs on top of the tape and then cover them with a second, smaller, piece of tape.

ⓘ Press down to make a firm connection. If something isn't lighting up it's probably for this reason.

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