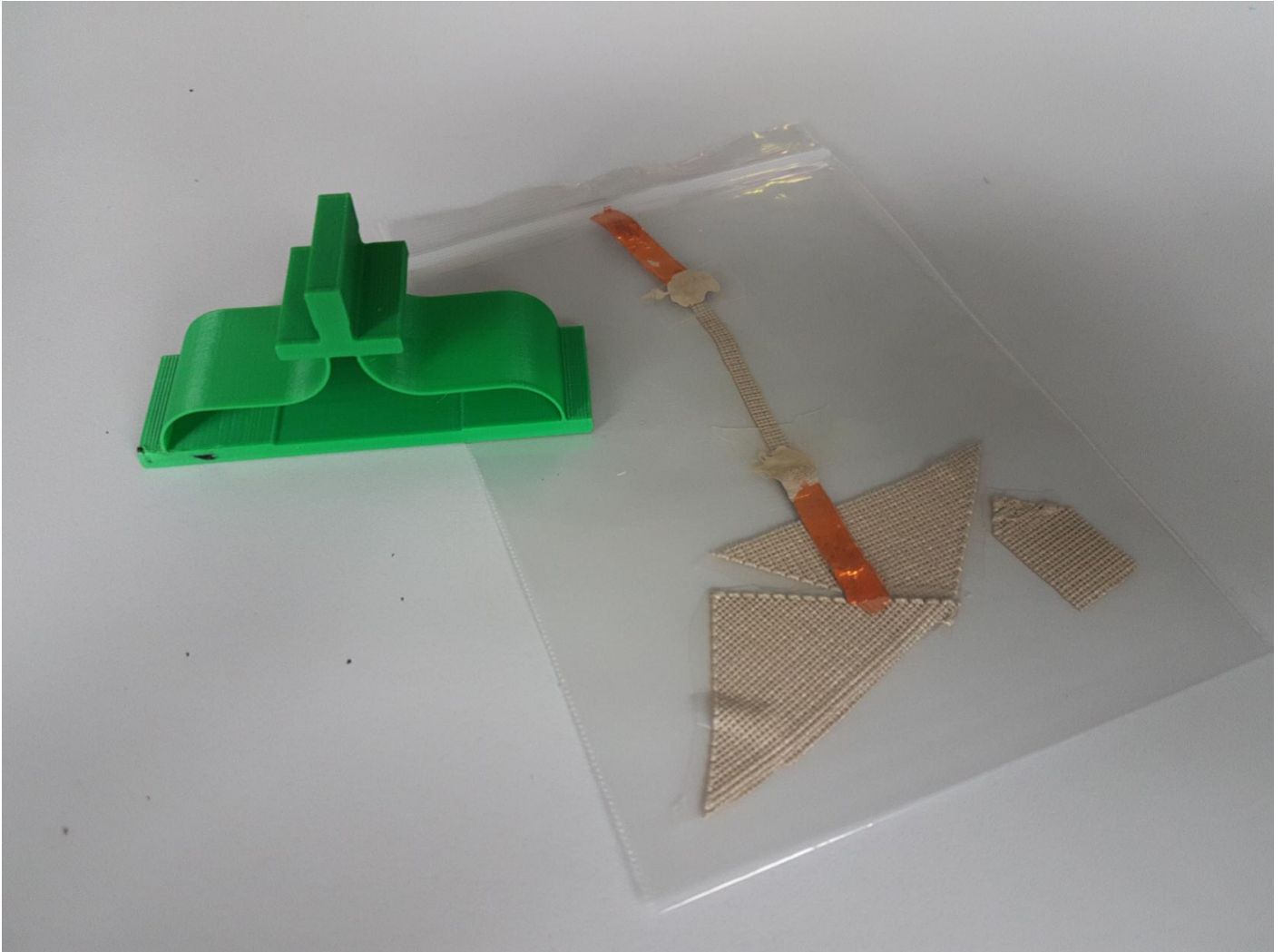
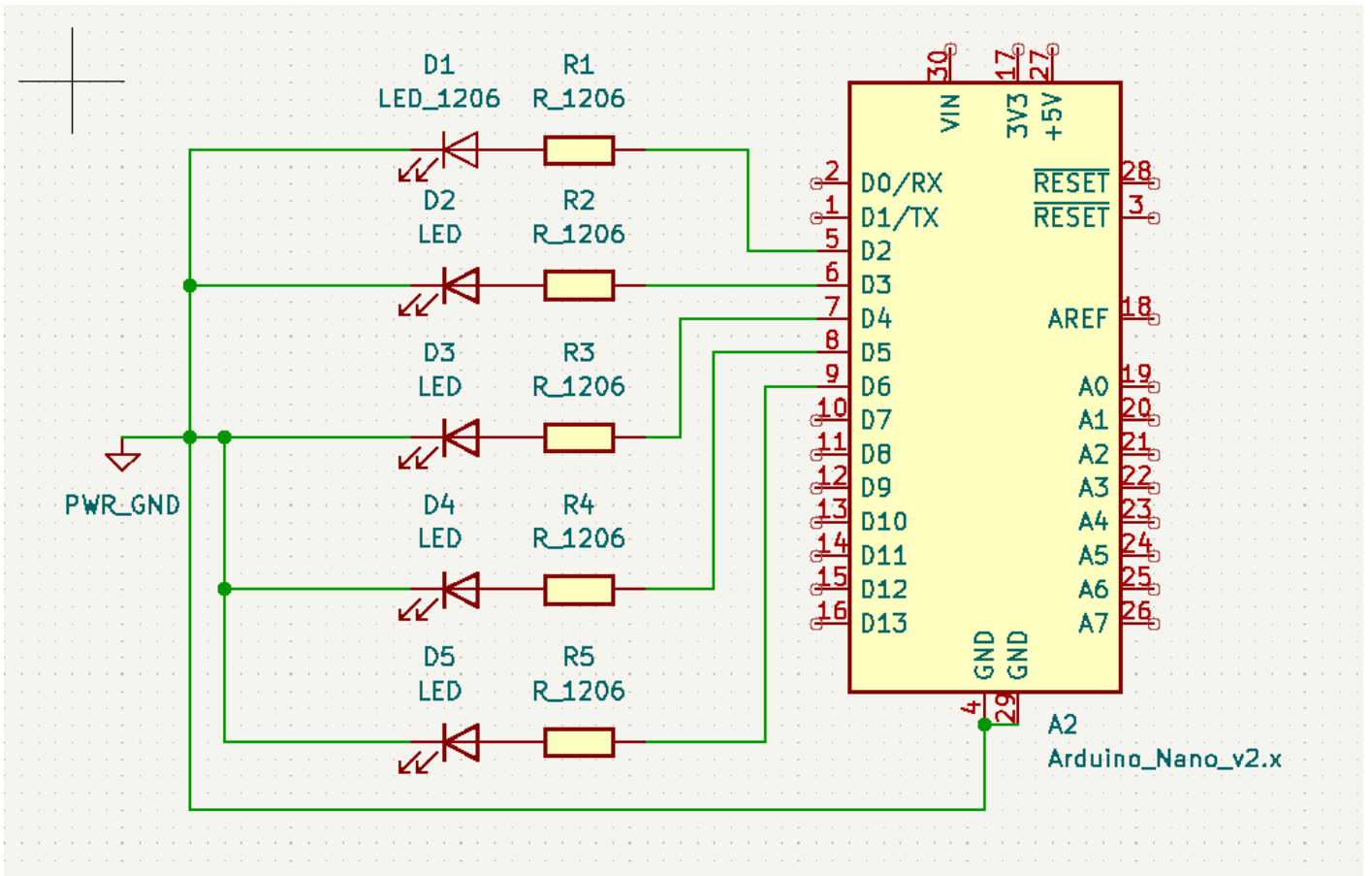
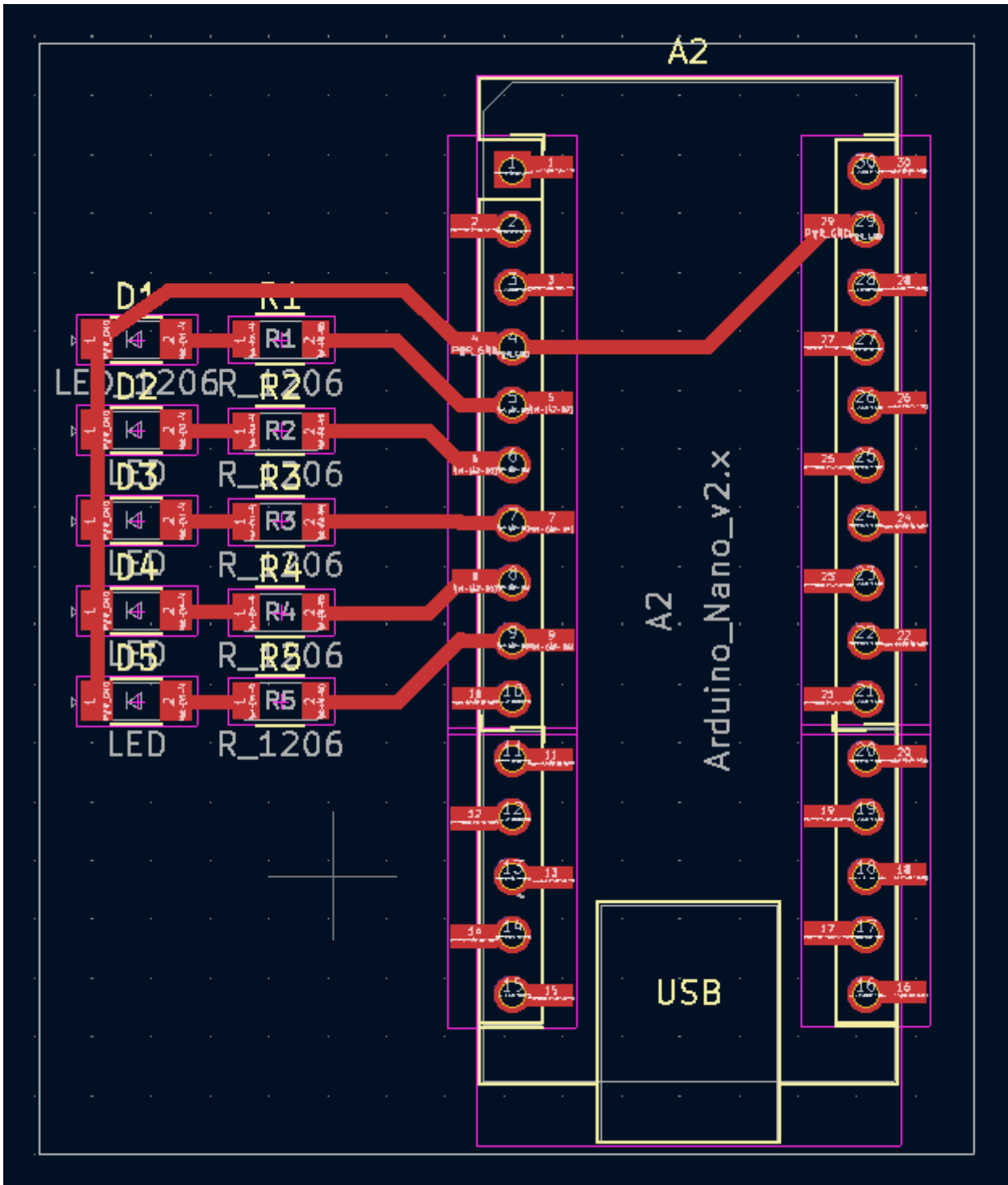


Stretch-Sensor

We are working on a little circuit for testing a material developed by [M.Sc. Han Yang](#):





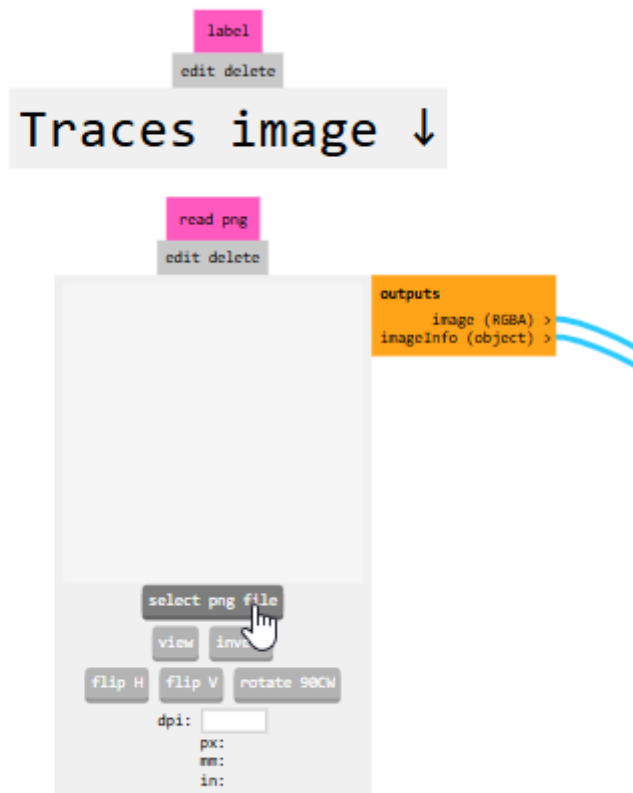


Measurement with Multimeter:

Initial state	110 - 170 Ω	
slight stretching	350 - 500 Ω	
Higher tensile force	1k Ω	(unstable)
Approximately limited state	9-15 k Ω	(unstable)

<https://modsproject.org/>
 rightclick --> program --> open program --> carvera mill 2D PCB

```
formats
  gerber plot
frep
  gears
  lattice torus
  smiley
image
  function
  motion detect
  palette mask raster
  palette mask vector
  vectorize
iterate
  z theta scan
machines
  Carbide Nomad
  PCB
  Carvera
  mill 2D PCB
  mill 2D PCB all
Epilog
  cut
G-code
  mill 2.5D stl
  mill 2D
  mill 2D PCB
```

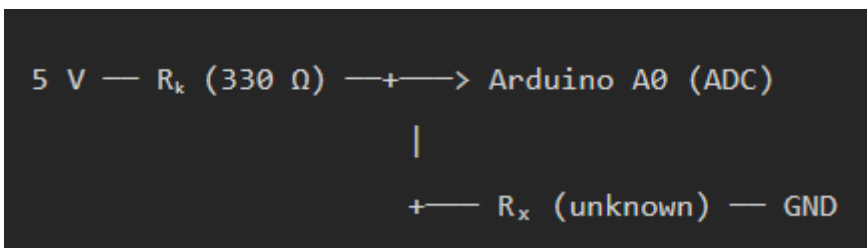


tool 1:
 tool 1 diameter (mm):
 cut depth 1 (mm):
 max depth 1 (mm):
 offset number 1: (\emptyset = fill)
 offset stepover 1: (1 = diameter)

tool 2:
 tool 2 diameter (mm):
 cut depth 2 (mm):
 max depth 2 (mm):
 offset number 2: (\emptyset = fill)
 offset stepover 2: (1 = diameter)

first test: <https://www.hackster.io/ddami/5-blinking-leds-c29889>

<https://chat-ai.academiccloud.de> How can I measure a resistance between 110 ohms and 1 kOhm with a arduino Nano using a Voltage divider?



We tried $R_k=330\Omega$ (values too high) $R_k=220\Omega$ (values even higher) $R_k=1k\Omega$ (ok!)

Sensor

Revision #6

Created 2025-10-01 14:08:38 UTC by Ferdi

Updated 2025-10-10 14:04:22 UTC by Han