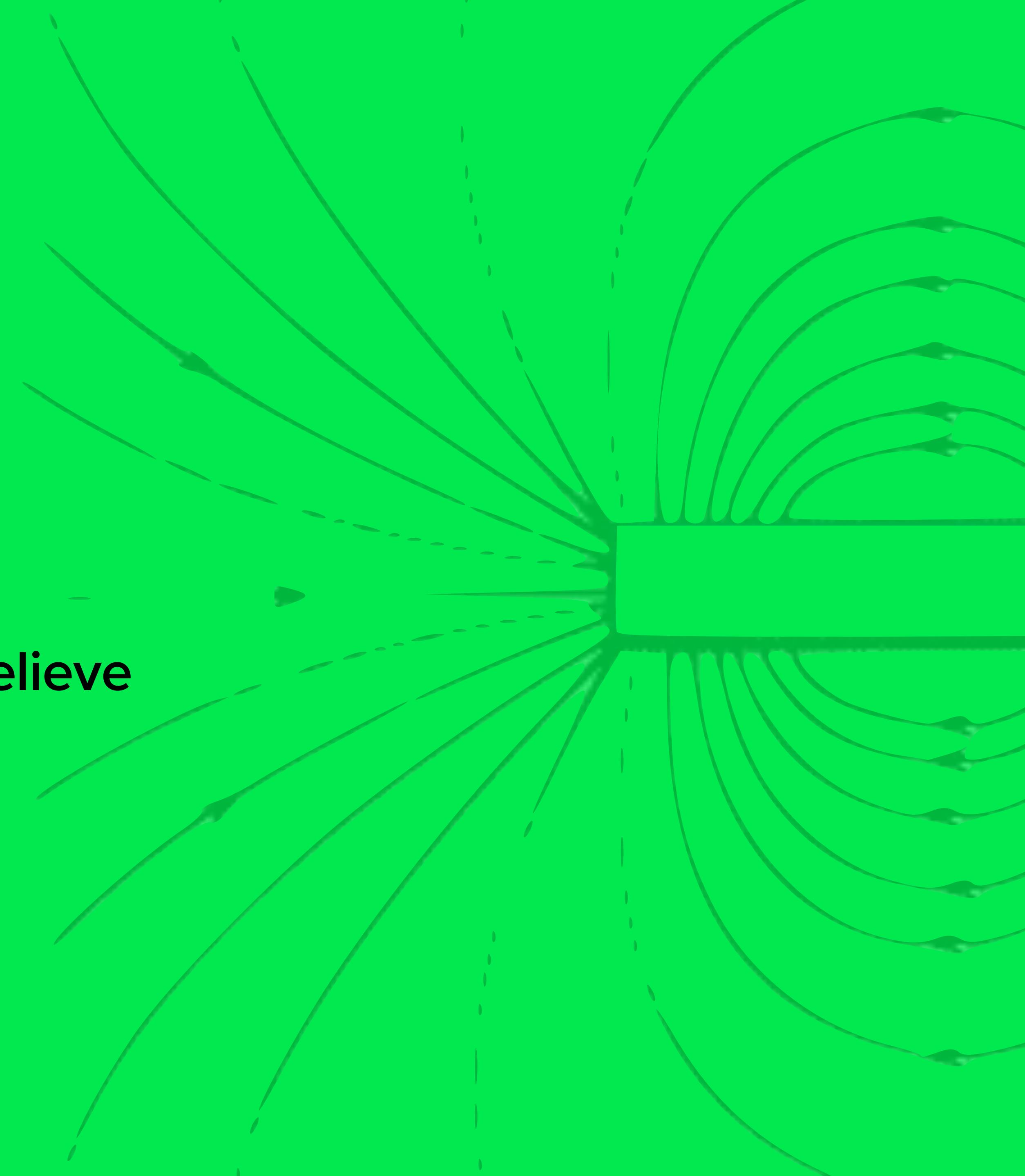


LEE WILKINS

MAGNETIC FIELDS

School of Machines, Making & Make Believe



**HANDS ON, EXPERIMENTAL, ROOTED IN KNOWLEDGE EXCHANGE AND
SHARING EXPERIENCES**

I AM NOT AN ENGINEER :)

WHO ARE YOU?

Open the Google Doc

Add 3 slides each:

- An image of your work, or something that represents your work
- An image of a work you like that you didn't create
- An image of something else you like (that isn't a formal art piece)

Tell us about: Your skills/work, what you hope to learn, what you're working on (we'll talk about projects later in this class)

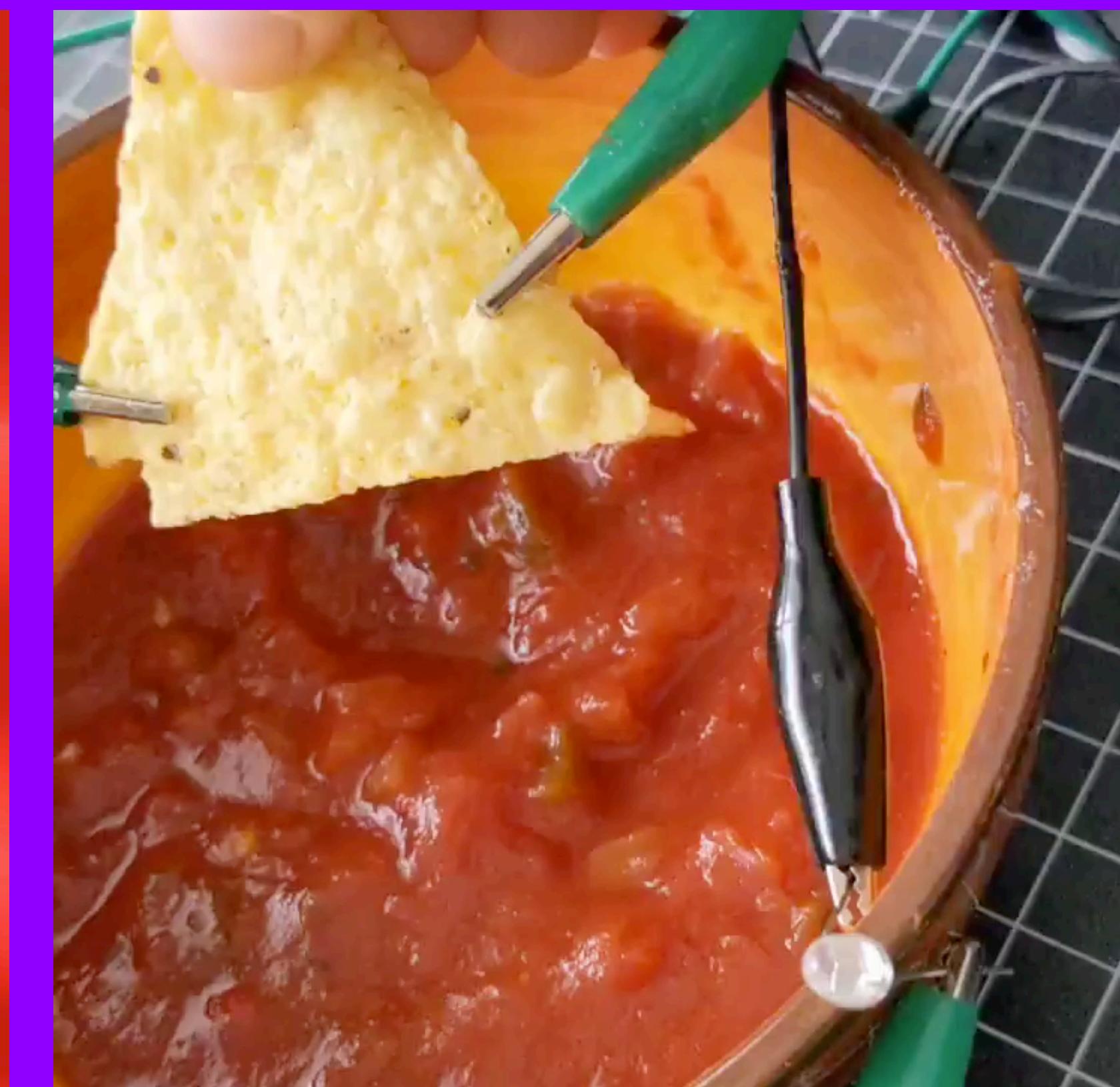
Name + Pronouns

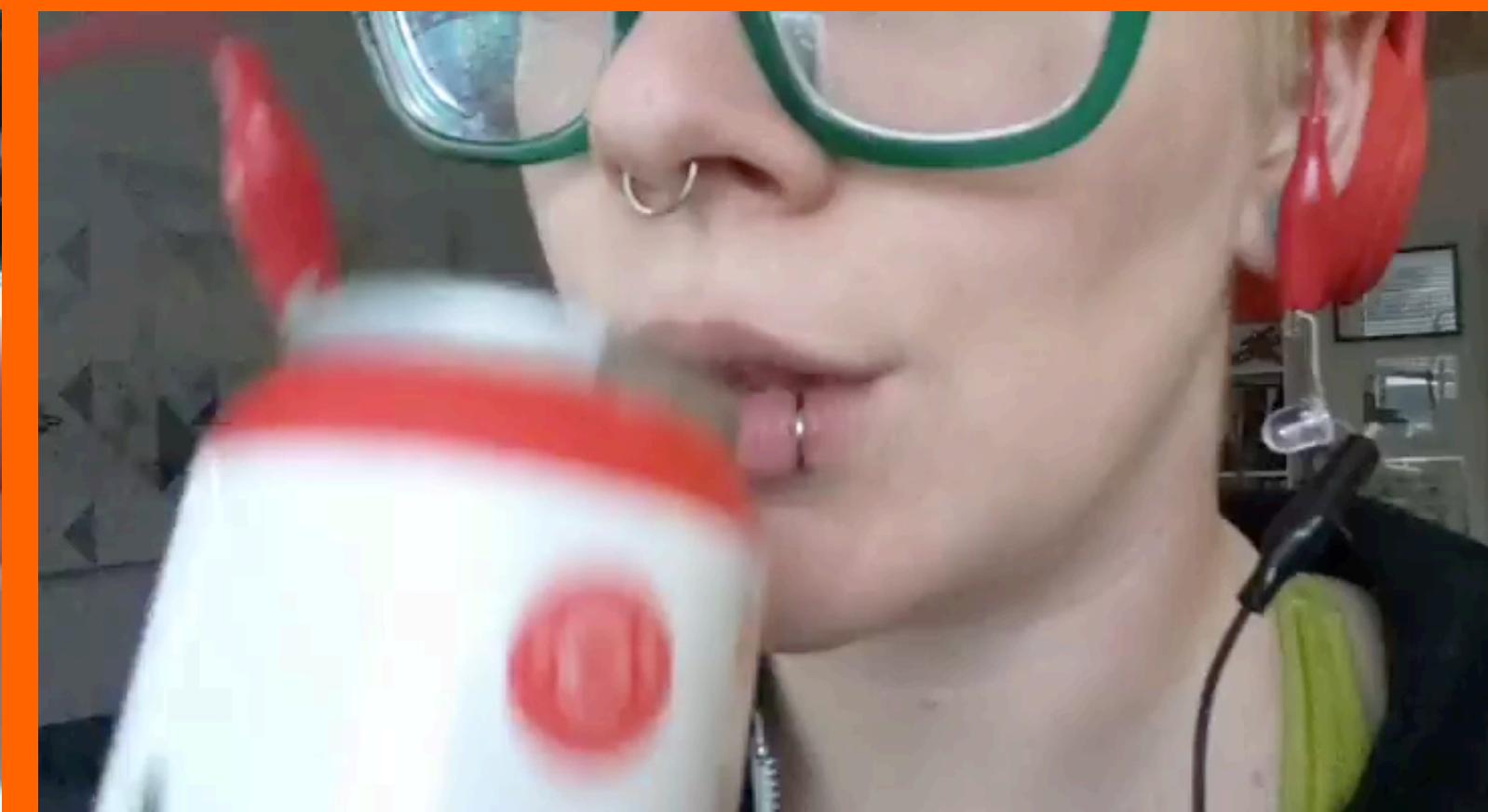
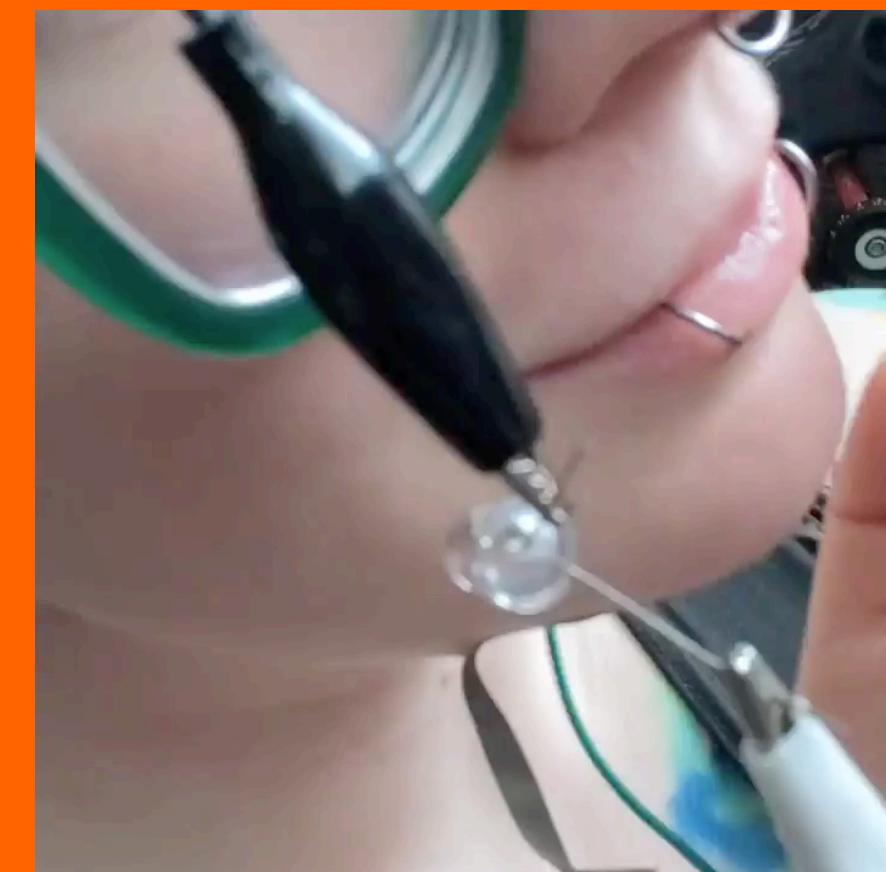
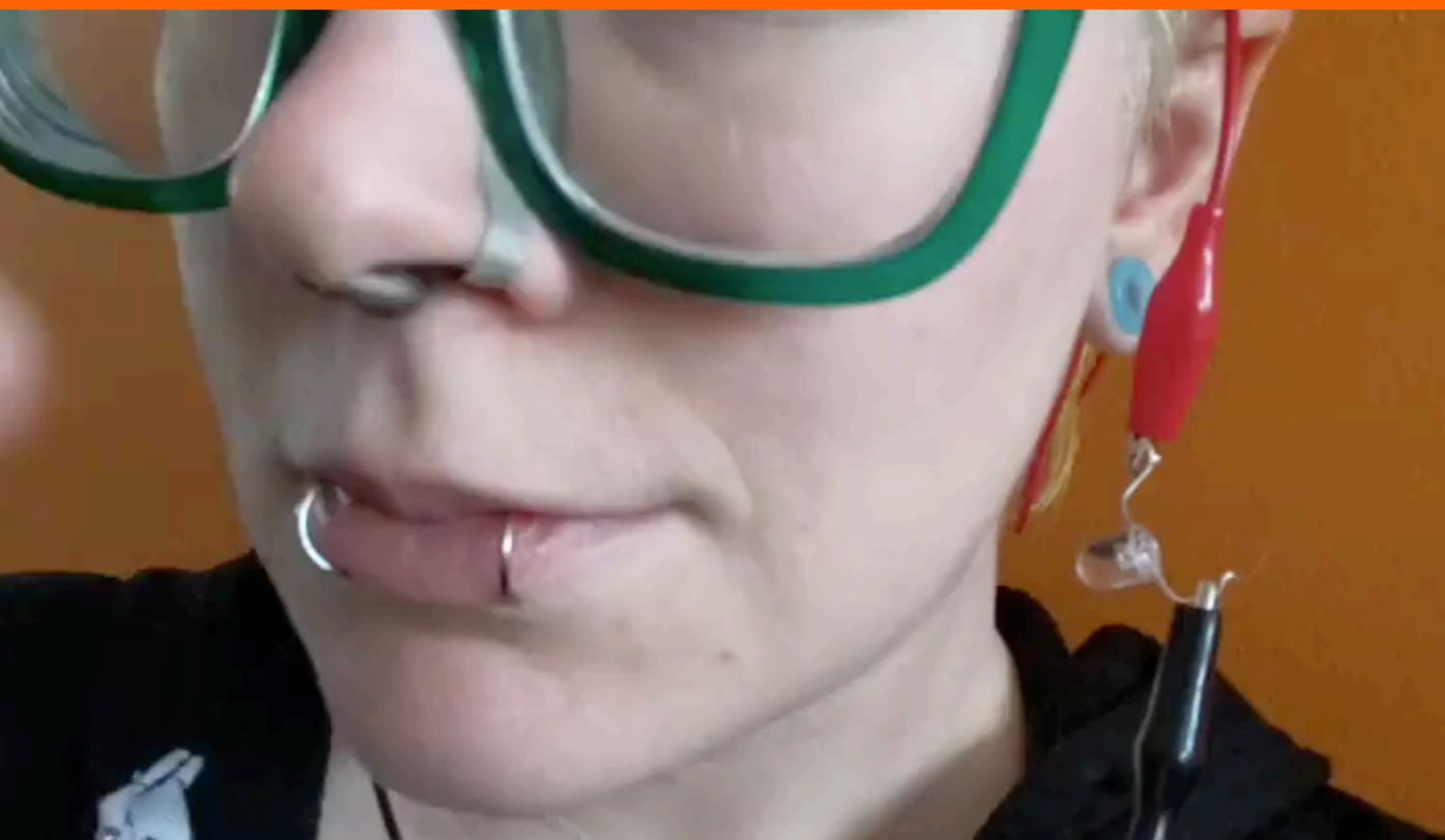
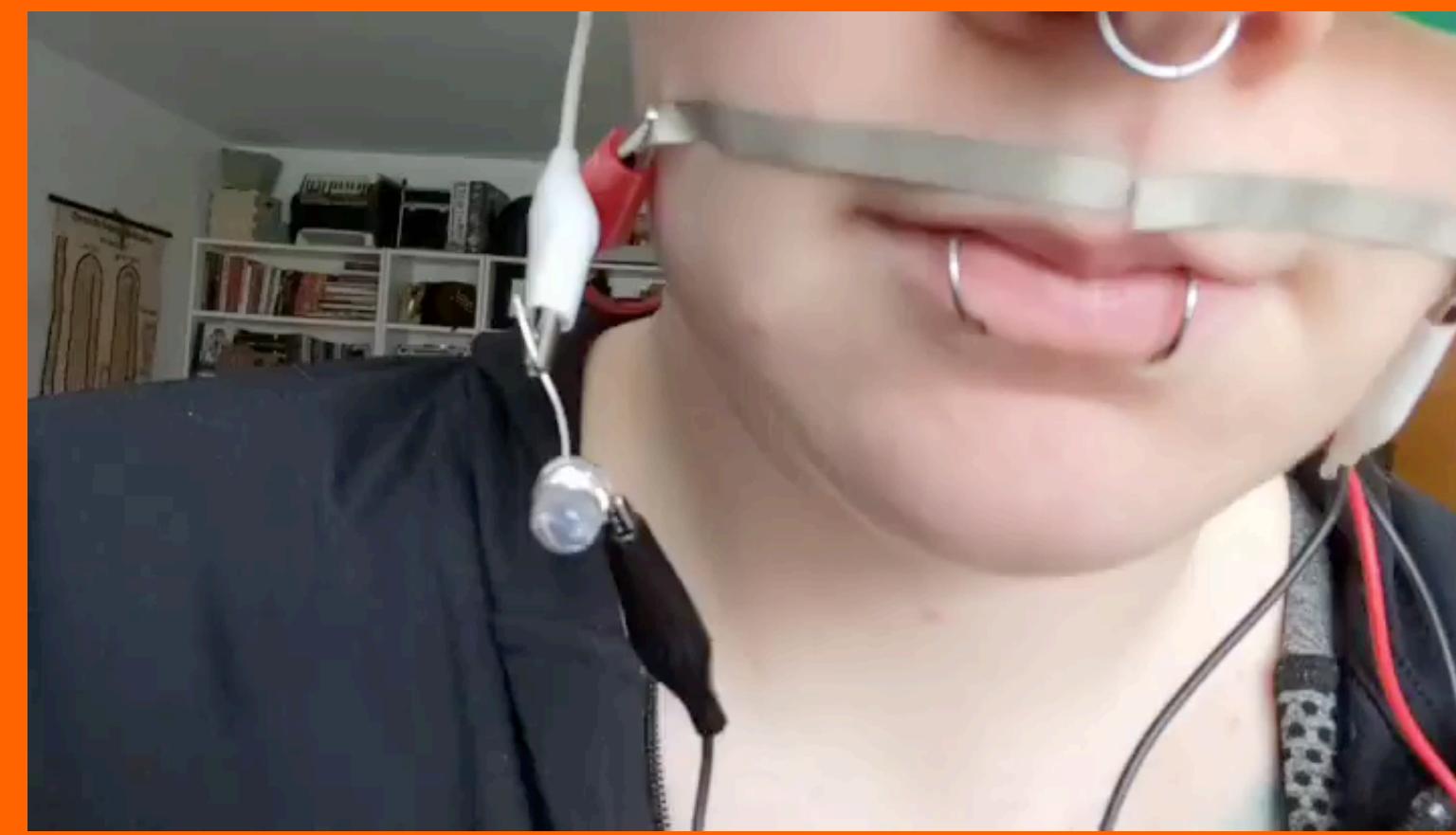
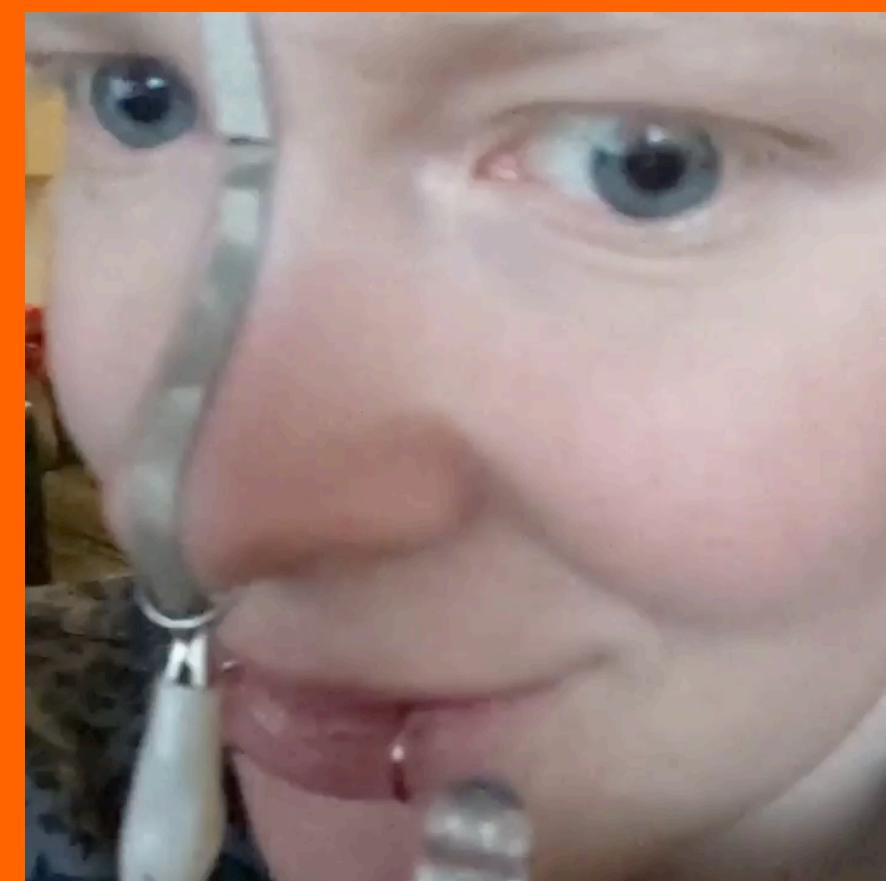
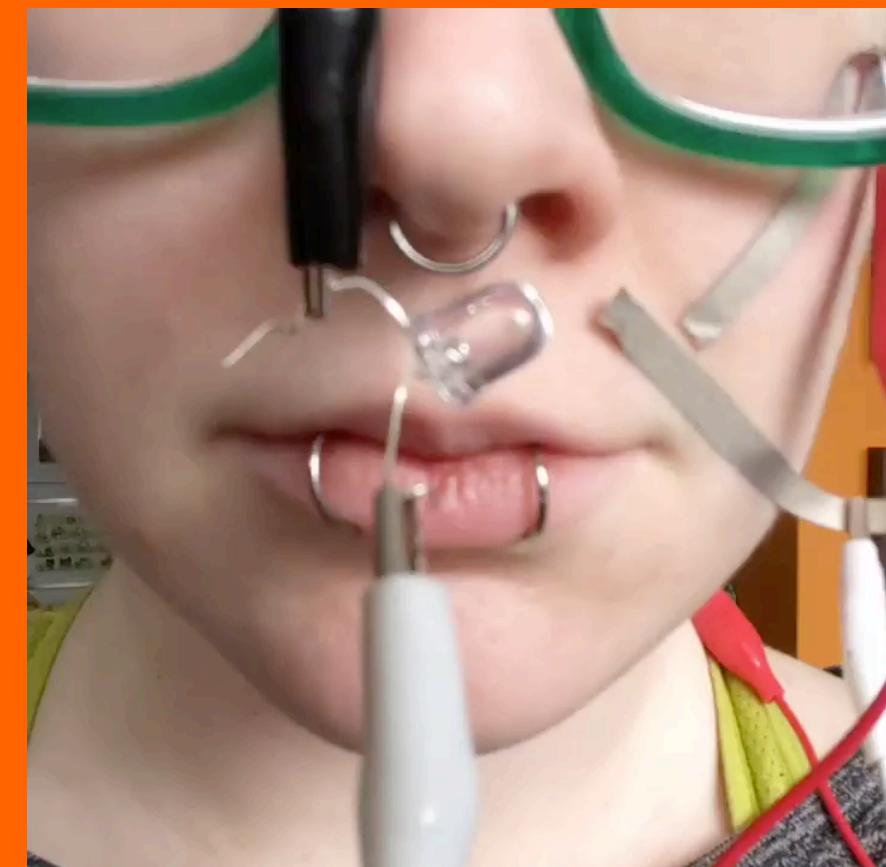
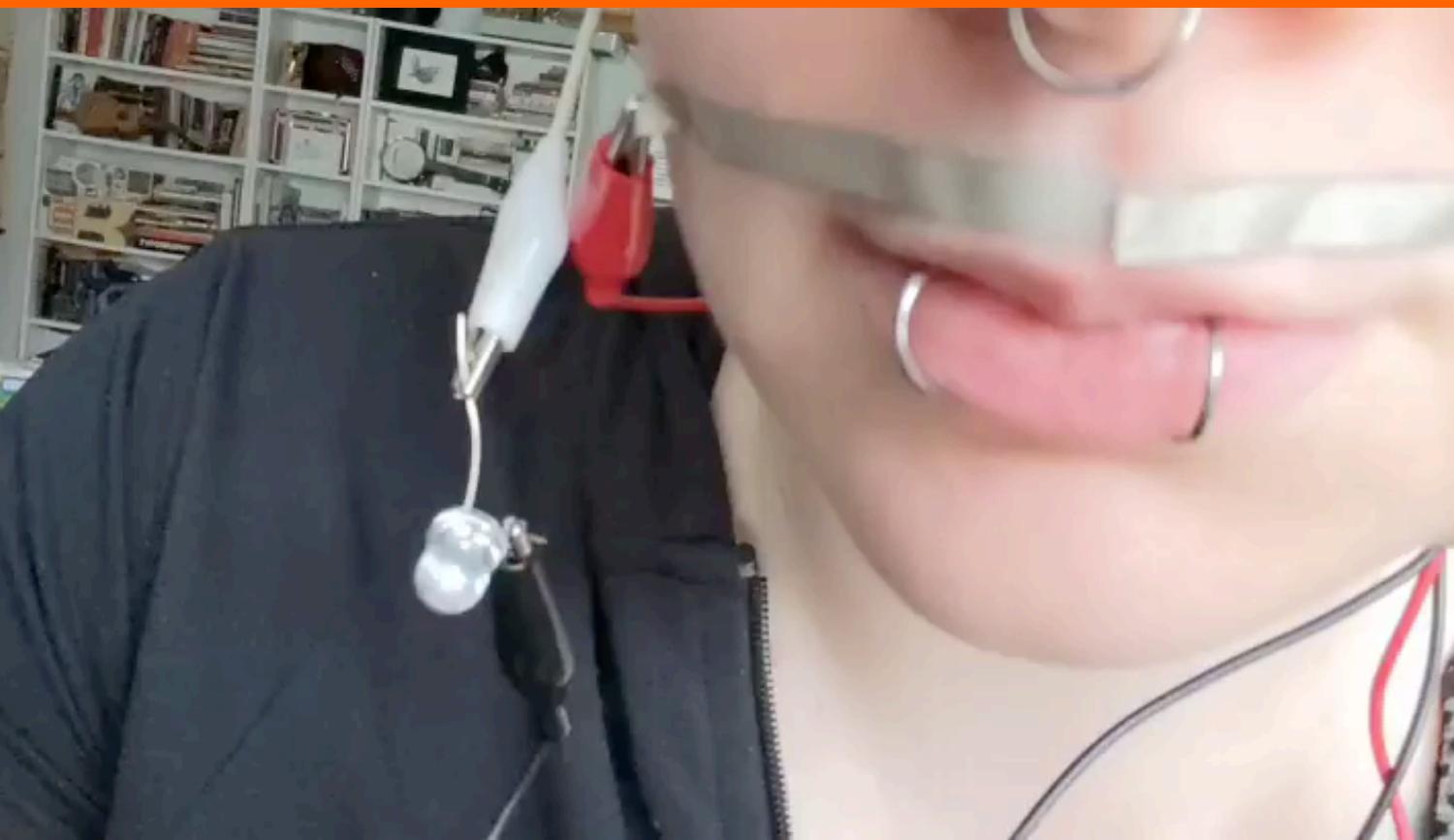
LEE WILKINS

I am an artist and cyborg based in Canada. I am currently a phd candidate at the university of Toronto, and I have worked in creative tech spaces for over 10 years. Currently, I lead partnerships and community initiatives at the Milieux Institute in Montreal.

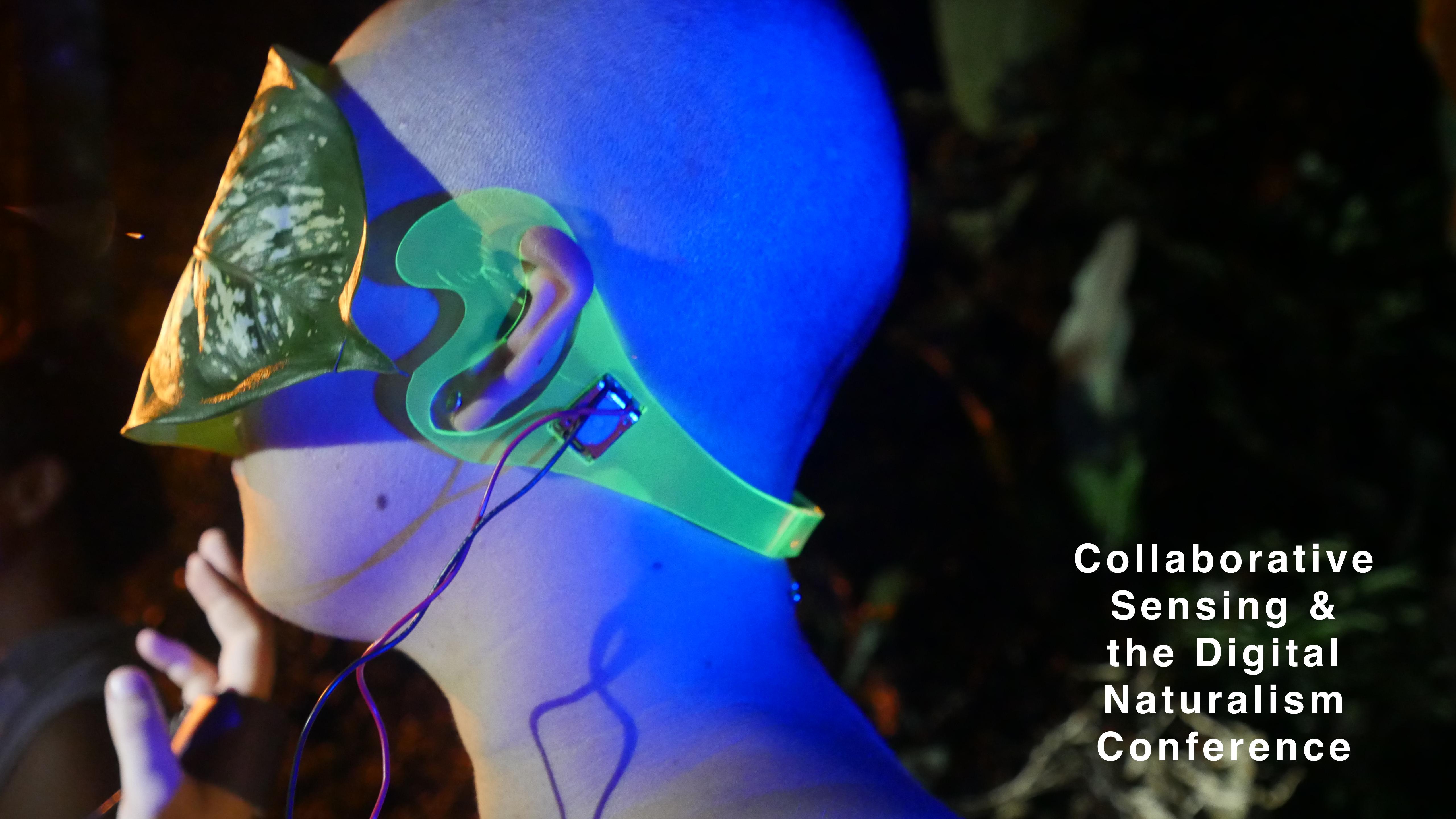
Twitter / Insta : @Leeborg_
Website : leecyb.org
Email : hello@leecyb.org











Collaborative Sensing & the Digital Naturalism Conference

now

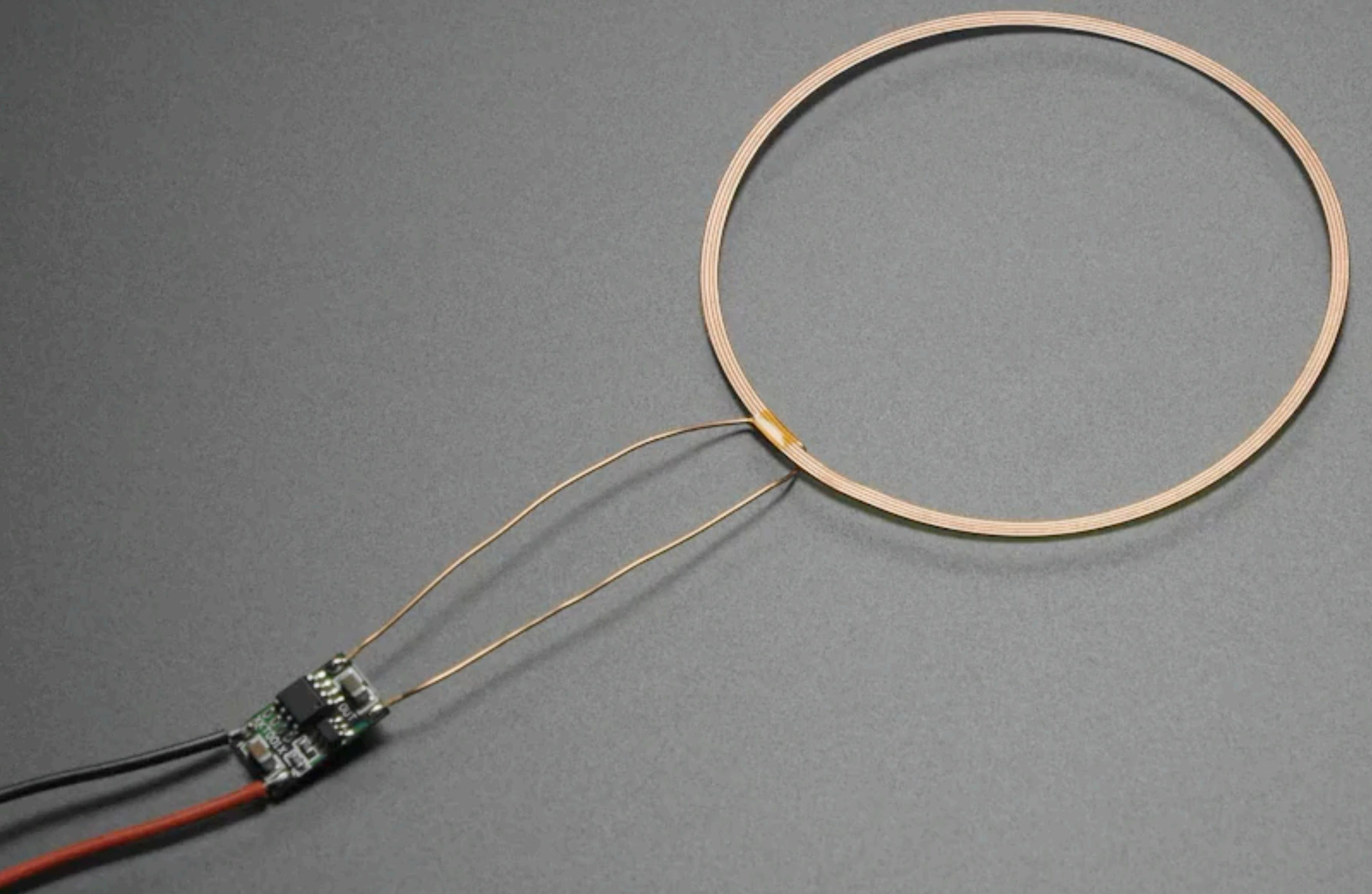


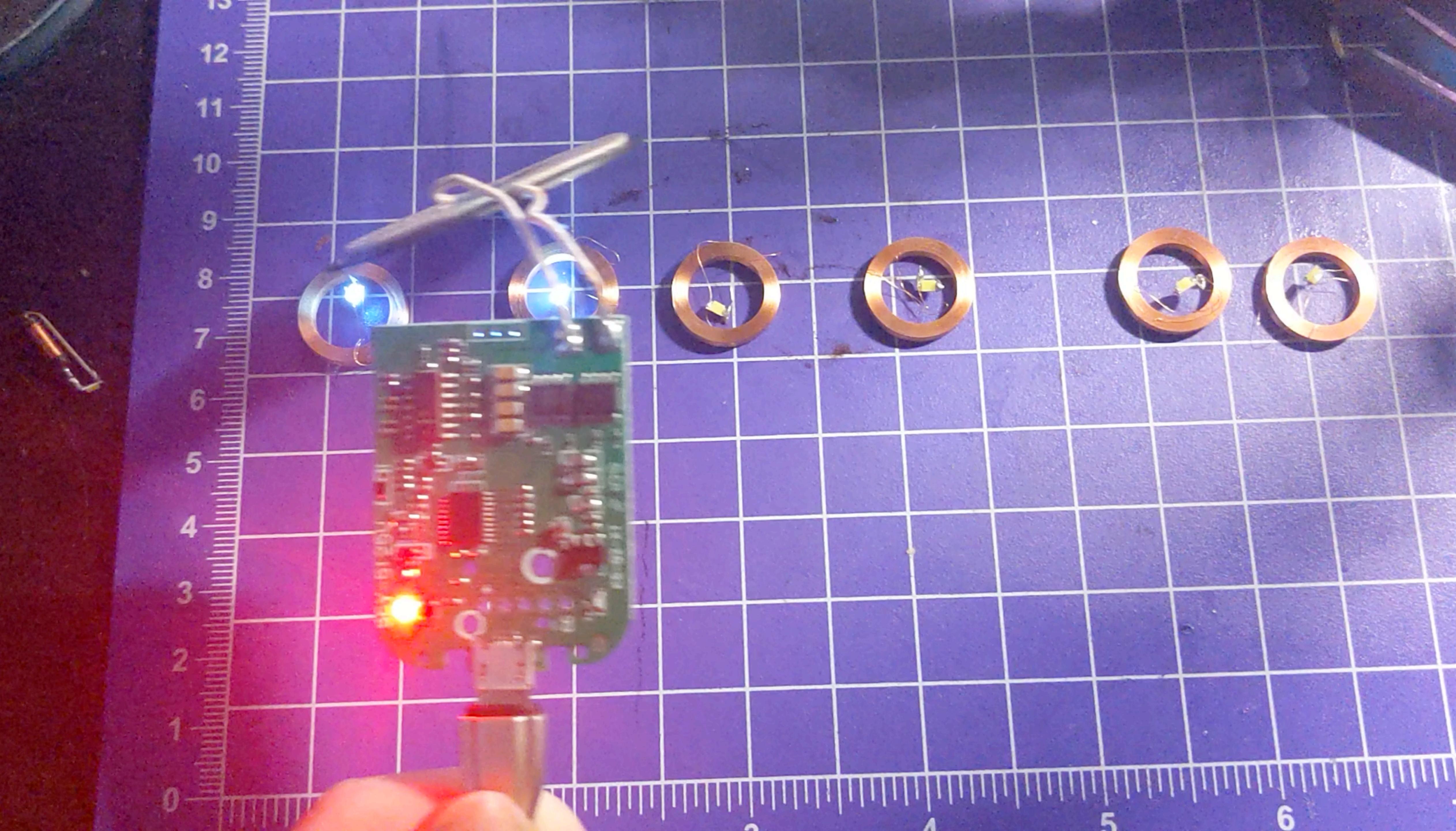
RE:Familiar
by little dada
at Make
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Calgary

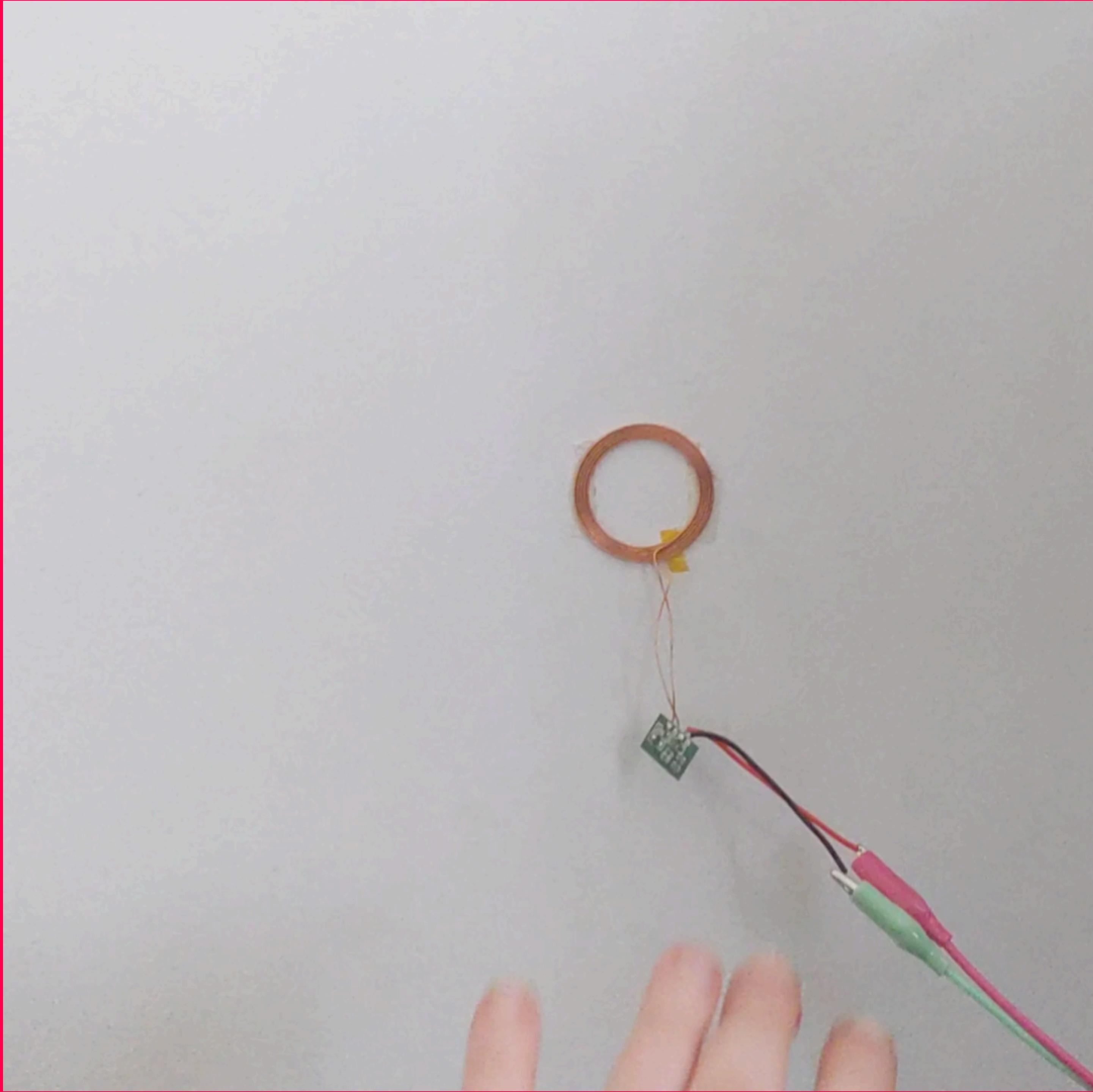




Android
Apparatus
by little
dada







THESE EFFECTS SEEM MAGICAL, BUT THEY ARE
IN OUR EVERYDAY LIVES AND WE DON'T THINK
ABOUT THEM.

CLASS FORMAT

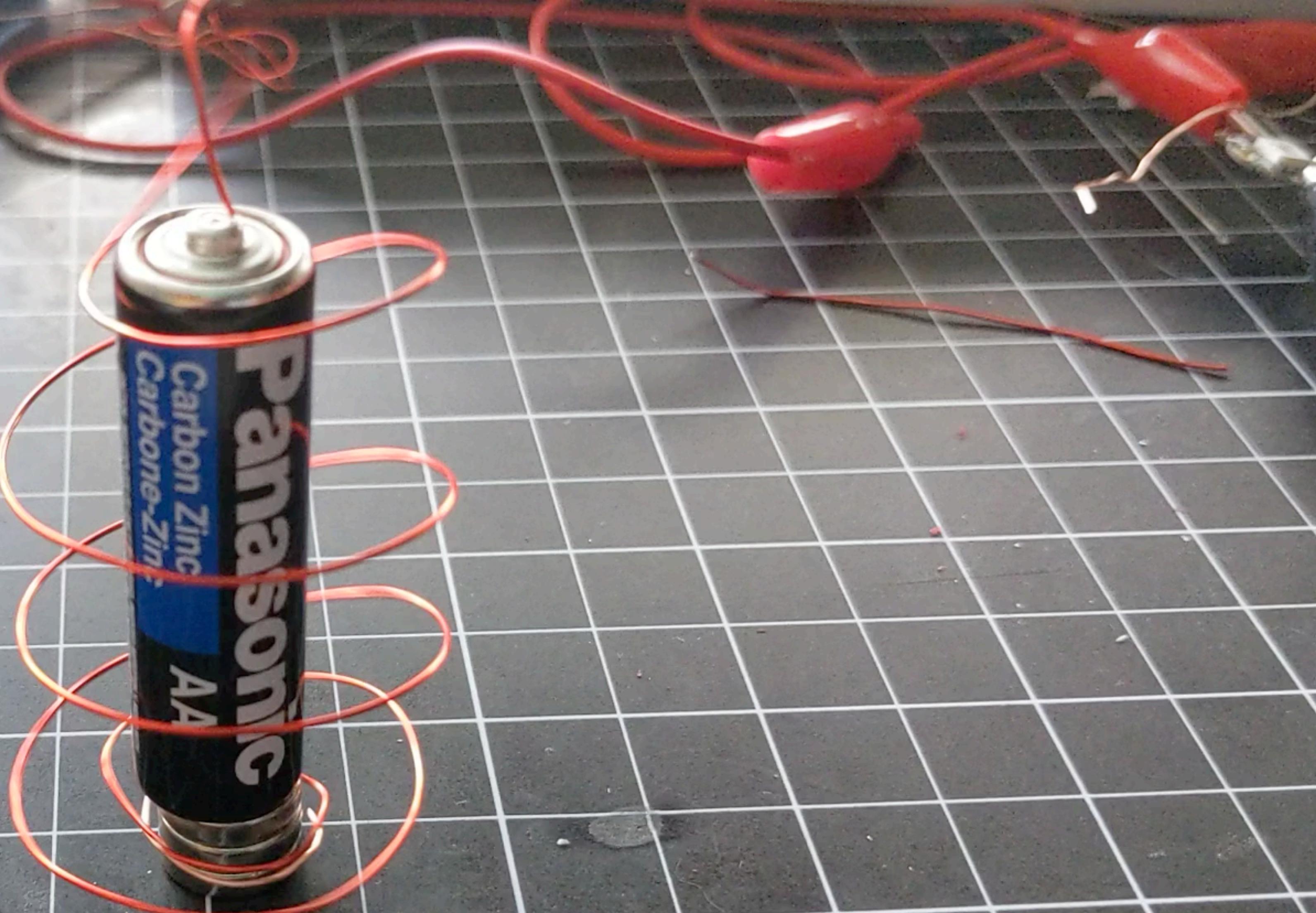
- 10 Minutes: Check-in - Bring something to share!**
- 10 Minutes: Buddy project update**
- 10 Minutes: Introduce Topic & examples**
- 30 Minutes: Technical Tutorial**
- 10 Minutes: break**
- 45 minutes: Work Session & Project Consultations**

WEEK 2

Motors & Motion

We will be making homopolar motors and experimenting with movement in the first class.

We will build a variety of devices using magnets, magnet wire, AA batteries that move in various ways. The class will be largely exploratory and we will produce a mini-project during the session.



WEEK 3

Sound & Soft Speakers

We will be making “soft speakers” out of fabric and embroidery hoops that can be hooked up to any audio output device, bring something to class that has an audio-out port!

<https://photos.app.goo.gl/c4KvB5igpbLfctQcA>

WEEK 4

Audio & Detection

We will be making an audio electric field “listening” device that may use the soft speaker from last week.

We will go on a brief listening walk and share with the group!

WEEK 5

Sharing final projects & Special topics

The final class is dedicated to us sharing our projects with each other and addressing any special topics that have come up throughout the

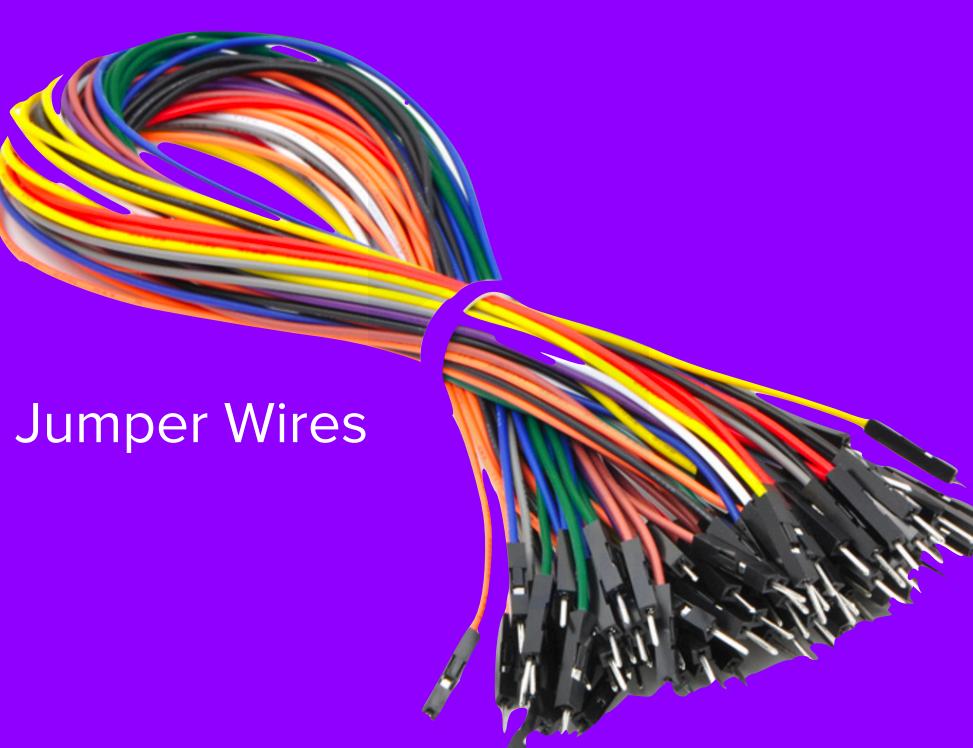
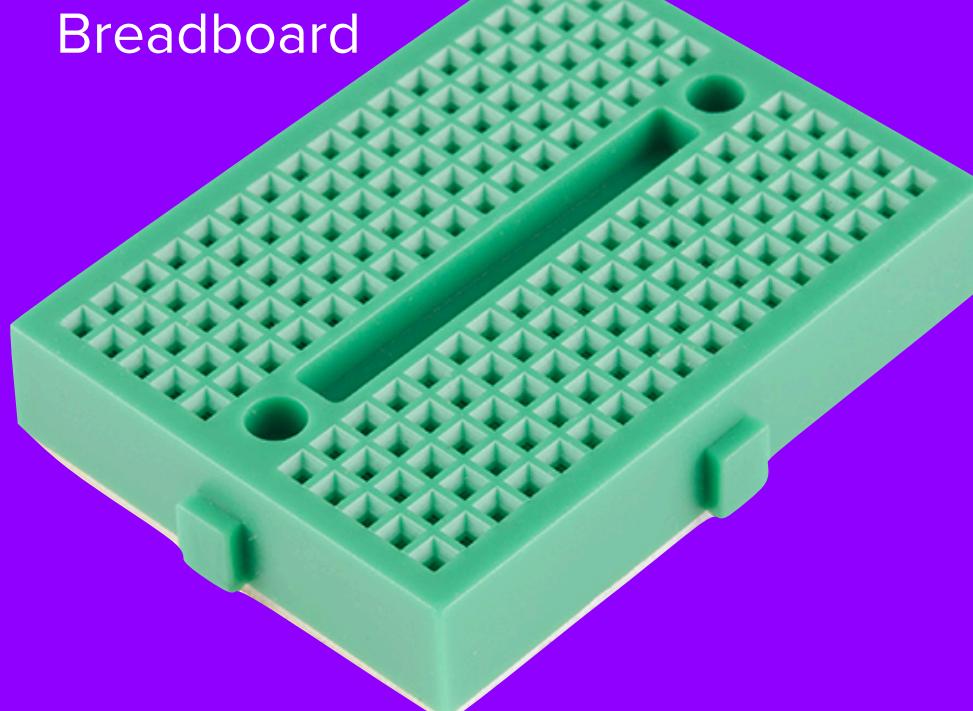
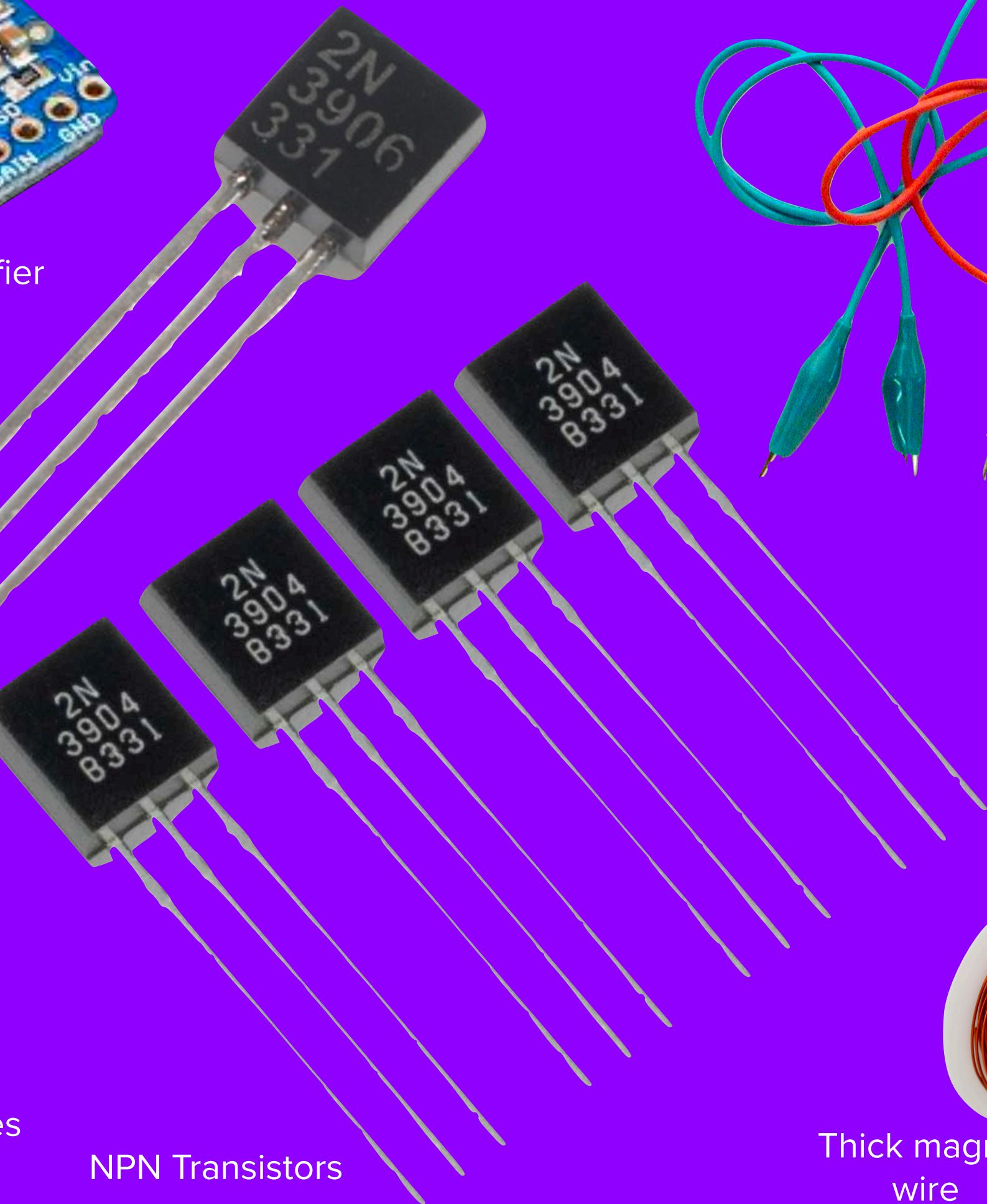
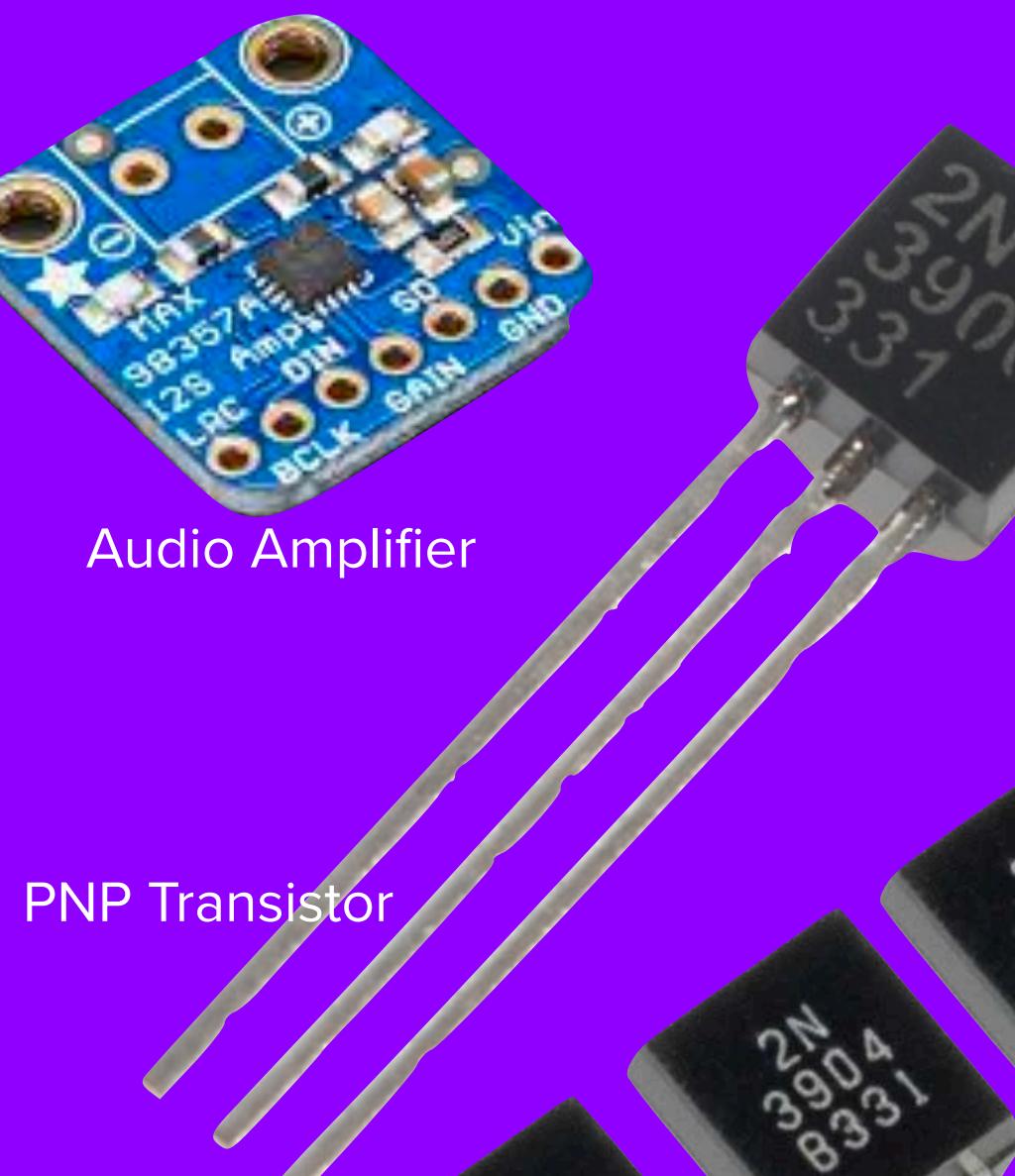
OFFICE HOURS:

WEDNESDAYS 3P EASTERN TIME 7P CET

EMAIL: HELLO@LEECYB.ORG

5 MINUTE BREAK!

STUFF IN KIT



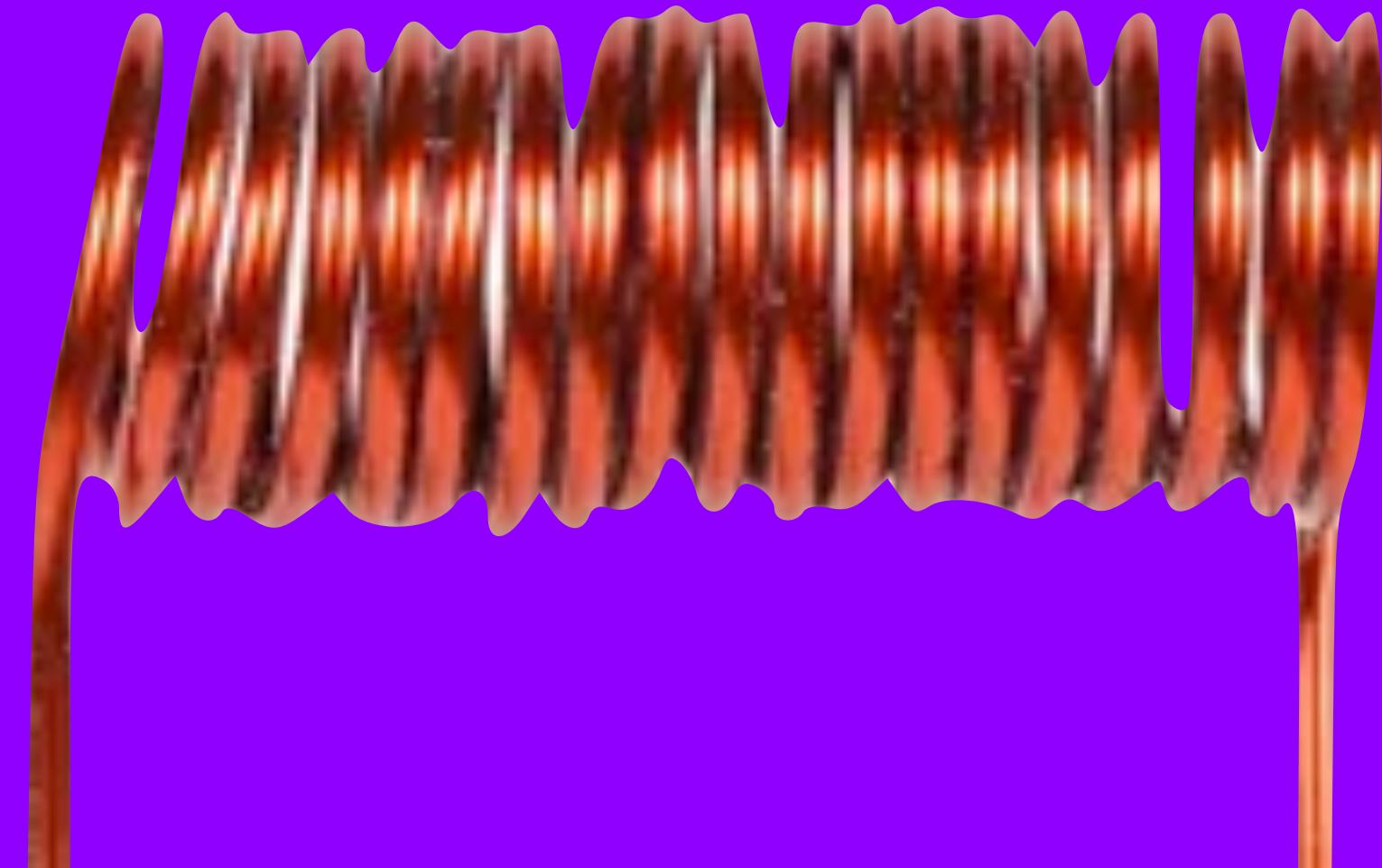
OTHER STUFF YOU MIGHT NEED

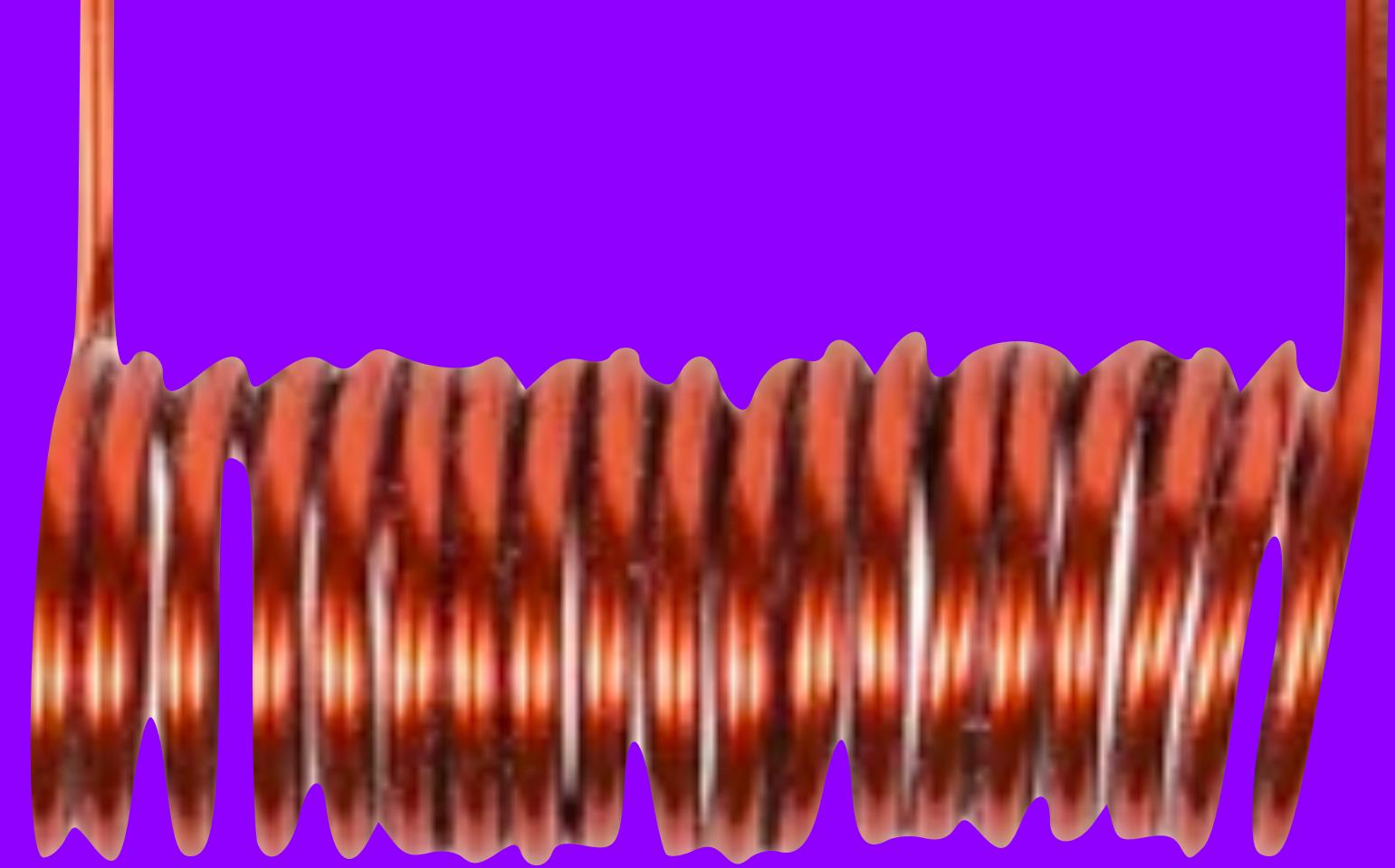


MORE STUFF THAT YOU COULD USE, BUT ARE REALLY NOT REQUIRED



WHY MAGNETIC FIELDS?





COILS, WHAT DO THEY DO?

**RFIDS, NFCS, Wireless power,
motors, speakers, solenoids,
electro magnets, heating elements,**

PROJECTS & PROJECT BUDDIES

WIRELESS POWER TRANSFER



RFIDS & NFCS



LET'S TRY TOGETHER!

- Step 1: Find something to coil your wire around, different sizes will have different effects. Something like a thick marker, glue stick, or bottle will work.**
- Step 2: Coil your wire 10ish times around that thing, leaving 2 leads coming off the coil at each end of the wires**
- Step 3: Using sand paper, or a lighter, or scissors, scrape the clear coating off the ends of the wires**
- Step 4: Use the alligator clips to connect the ends of the wires to the ends of your LED**
- Step 5: Turn on NFC communication on your phone and put it near the coil!**