**How to make a battery:**

Step 1:

Wipe down the table using IPA. Have 3 White paper flat on the table after wipe down.

Step 2:

Have 4 clean tweezers. 1 used for black powder. 1 used for zinc. The other used for the silver. The forth is for assembling.

Step 3:

Take out membrane of the battery to have it sized. Once you slightly push down and you see a ring you are able to cut the outline. Make sure its precise. (do not loose it on the white paper!!!)

Step 4:

Measure the voltage of the Energized commercial battery. Then type it in on the excel sheet. (should be 1.6v)

Step 5:

Take The Energized battery and crack it open with the sharp shear cutters. (Make sure you don’t touch the membrane, which is within the positive side (big case) It will get hot and melt the gloves) Make little holes below the + of the commercial battery: Till the negative side bends.

Step 6:

Use one of the tweezers only remove the gasket and membrane of the commercial battery. (It might not come out immediately so you have to use the shears to bend the battery in a weird way for easier removal)

Step 7:

Use another tweezers to remove the black powder (Di-silver oxide –Ag20) to fill in the Positive Side of the battery (Big Cap). Right below the black line. Compact tightly with mallet.

Step 8:

Use another tweezers to remove silver on a separate white cloth. Then fill the bottom cap all the way to the top of the cap

Step 9:

Take the membrane that you cut out dip it in Potassium hydroxide. Then take it and lay it over the 3D Printed Battery Big cap (Push out the excess wholes around the edges.)

Step 10:

Put the small cap on top then seal it with apoxy (make sure you drizzle it)

Step 11:

To make sure your battery is working use alligator clips to test the volts.

If there are no volts break it open (only if the battery don’t have apoxy on it) see what’s going on inside.

Step 12:

Then lastly clamp down with a continuous slight force leave it overnight to make sure it’s sealed.