

**HOW TO: BOBBIN OR QUILL WINDING** The paper quill we are using is a kind of bobbin.

To begin to wind, push the quill firmly against the fatter part of the rod so that it holds.

If pulling thread from the spool rack, first make sure the angle is as straight as possible coming from the rack to the rod. If pulling from a cone, place the cone on the floor directly underneath the rod and in front of your feet.

Begin by pulling an end of thread, place it  $3/8"$  from one end of the paper quill, facing in, and hold with your thumb. Then wind (towards your body) 5+ times over this end.

Like this:



Using the hand crank, wind the bobbin winder (away from your body) and begin winding the thread around the quill. Use your other hand to guide the thread from the back of the quill (pulling from the spool rack), or guide from below (pulling from a cone).

Like this:



hand guide from back



hand guide from below

Guide the thread from the left to the right filling the length of the quill with one layer of thread. Holding the thread at a diagonal, guide it back and forth along the length of the quill, increasing towards the center so that the edges are gradually tapered. Always hold the thread with a small amount of tension so that it is wound tightly around the quill. Make sure to leave **at least  $3/8"$**  space unwound at either end of the quill. Finished quill looks like this:



Move into the most relaxing body position. Suggestion: keep the elbow of your winding arm close to your body. Rest your guide arm on the edge of the table. If your fingers are sensitive to the thread, band-aids are available. Look up frequently to rest your eyes.

When finished winding, remove the quill from the rod. Tie one end into the "thread wall" near a similar color, or place in a storage container on your worktable.