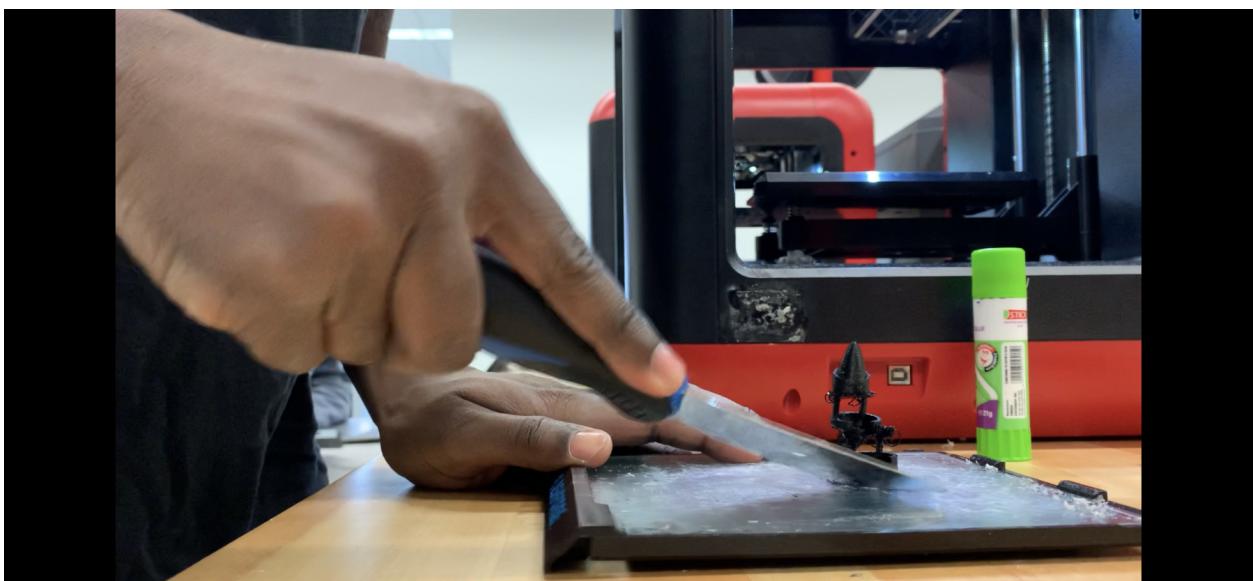


First Iteration:



Second Iteration:



The first iteration had issues with the way some of the parts were sized as well as some printing errors. The ring sizes (diameters) which were around 19mm were a bit too tight to fit comfortably on my index (or any other) finger. The first iteration also did not use supports, so the second ring and connecting poles to the fingertip were unstable and frayed as well as slightly shifted to the right. It was still able to fit on my finger, but was hard to fit well. The way in which I angled the rings to go with the curve of the finger and the length of the supporting pillars between rings did seem to be effective for my finger shape, but I would have to break them apart and reassemble to get my finger to fit through it.

Improvements I made in the second iteration were increasing the ring size by about 2mm to a total of 21mm. I also made the rings thinner so they would be able to bend more easily along with the curve between the middle and distal phalange (the distal phalange is the furthermost bone of a finger, while the middle phalange is the middle bone of a finger). I also used supports to enable the build of the second ring to be constructed fuller and without problems due to overhang.