**FlatMaskHalf** contains a fusion model and sketch of the mask outline. The two .3mf files are ready to go with the bed packed as full as it will fit on the LulzBot Minis

**Vector Files** to laser cutin progress, changes are as follows:

-removed holes for assembly with tape

-made string holes smaller

-made Small/Medium/Large version

-changed neck part (need to revert this to the original or make more comfortable)

-made filter hole 1.25” to fit the part that I modeled

-V4 is now updated with less neck protrusion, holes for two filters, and 3 sizes (S,M,L)

-To scale for a new size (other than S,M,L), resize the entire mask, then change the filter holes back to 1.25”. String holes should be okay slightly altered

**STL files** to 3D print are in progress, changes are as follows:

-V1 the screw is too long and needed to be sanded down, also screw threads were too tight

-V2 screw threads were much better, fit after slight hand work

-V2 is also a bit shorter and a has a new more efficient faceplate

-V3 has threads for the filter cover (not sure how well it will work, is printing now (snap fit in V2 worked just fine))

-V3 works well. Threads have good tolerance - only takes threading them in and out a few times, no sanding.

-Faceplate could still be redesigned (just the grill. Threads and fit are fine)

-I’ve had the best luck printing on the LulzBot Mini with the standard layer settings and 100% infill

-V4 (new fusion file moving forward (“Filter\_2.0 v3.f3d”)) Works fine. Print somehow got slightly larger. Need to add something to make the parts easier to grip. New faceplate.

-V5 (not tested) Added grip texture/nubs to the outsides of parts. Reduced length. Removed some thickness.

General Questions/Concerns

-How many masks might we reasonably make 10’s 100’s 1000’s?

-In what time frame are they made?

-Reusable or disposable (or reusable and disposable parts?)

-Size and Fit (can individuals take time (and tape/gauze) to make their mask fit better?)

-Cost/Donation