

3D printed frame for making a Medical Face Shield

personal protection equipment (PPE)

-- needed immediately for the corona virus (Covid-19) pandemic outbreak --

Michael Swisher of ACCU911.com started providing free face shields in Austin, Texas as fast as he could make them and Willow Street Design stepped in to help.

I am sharing this design so that everyone can participate in contributing much needed face shields for medical personnel, fire fighters, policemen and all others that are generously working in the front lines of this battle against the pandemic. Do you part, contribute to the effort and help be part of the solution!

Project Description:

3D print a visor frame (geometry much like eyewear) and attach a clear plastic sheet over the 3 posts. Clear plastic with the needed three holes can be made (standard 3-hole punch) or purchased (pre-punched transparencies or sheet protectors) from an office supply store.

De-contaminating Process:

Remove clear plastic from the 3 posts on frame and discard. Wipe down or soak the 3D printed frame in alcohol.

Basic Printing Instructions:

I'm printing parts on a Cetus3D MK2 with 1.75mm dia PLA, .6mm nozzle at 220C. This little printer can do a 15pack, where the Frame-to-Frame spacing is .020in and interconnected with .020in diameter posts. I print Cup Side Up to minimize support material. Use a putty knife coming down from the top to easily separate the frames.

Contact Marbert Moore at Willow Street Design if you need modifications or other electro-mechanical design work. Marbert@willowstreetdesign.com.

Please donate if you can so that we can keep buying rolls of PLA and printing. Donations of \$25 or more gets you your own custom design with your organization's name on the frame, just like ACCU911 and Willow Street Design.

Thank you,
Marbert G. Moore III
President
Willow Street Design
www.willowstreetdesign.com