Face shield with social distancing alarm reminder

During COVID-19 pandemic situation, one among various efforts from our CeNS community was "Low-cost Face shield." Team of scientists and students have come up a very simple design for the fabrication of "Face Shield" which requires commonly available stationary items such as PET sheet (commonly known as transparent plastic sheets), Elastic band, double sided tape and Expanded Polyethylene Foam (EPE) /commonly known as packing foam. This face shield provides a first level of protection to safeguard from any virus transmission in the droplet form while working in close proximity. It is advised to wear a face shield when there is a possibility to breach in social distancing at workplaces.

In this pandemic, social distancing has become one of the mandatory parameter to avoid spread of the virus. Keeping this in mind, team designed a face shield which buzzers an alarm if another person come within the range of 3 feet with user. This face shield is designed on the framework of cowboy hat which gives an advantage of easy and comfort wear during any weather condition. All electronics circuitry along with rechargeable battery option inbuild inside the hat itself.

In addition, this face shield can be very useful for blind people who needs assistant while walking in crowded places. Greenhouse supported the team to realize their idea and contribute to the community .

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