

The Impact and Function of LED Masks on People's Communication



OVERVIEW

The project investigated a potential positive relationship between the use of LED masks and daily conversation effectiveness to find possible assistance to hearing-impaired people.

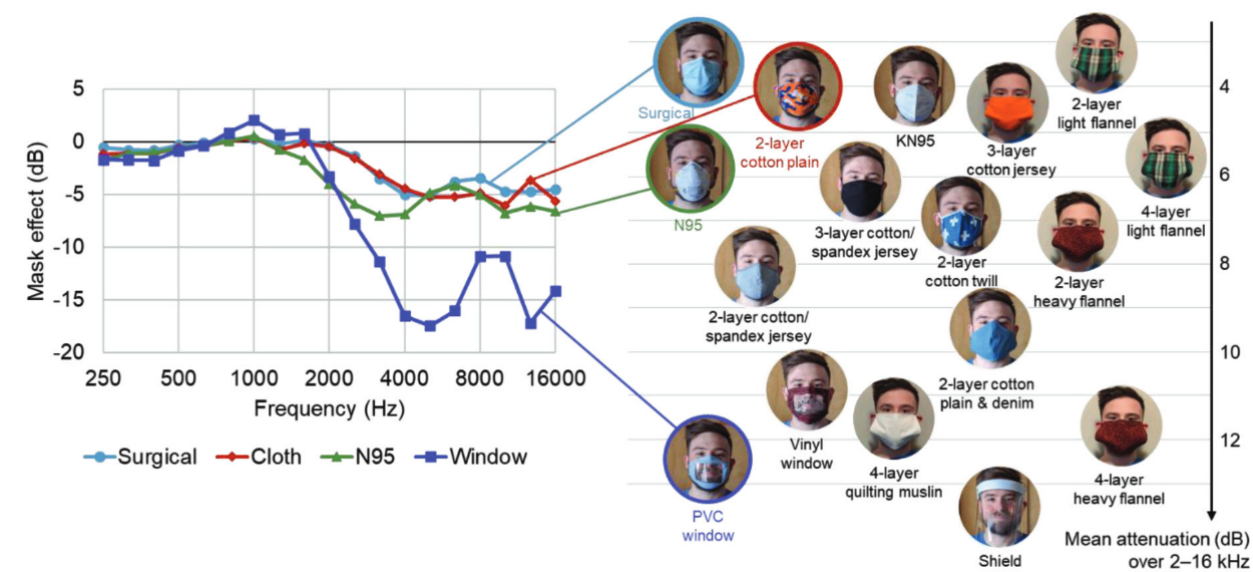
IDEA & PROGRESS

Importance of Non-Verbal Cues

- When verbal content and non-verbal cues are inconsistent, both adults and children tend to believe non-verbal cues.
- **Facial cue accounts for 27%** of information in communication which is the most influential non-verbal cues.

Research Gap

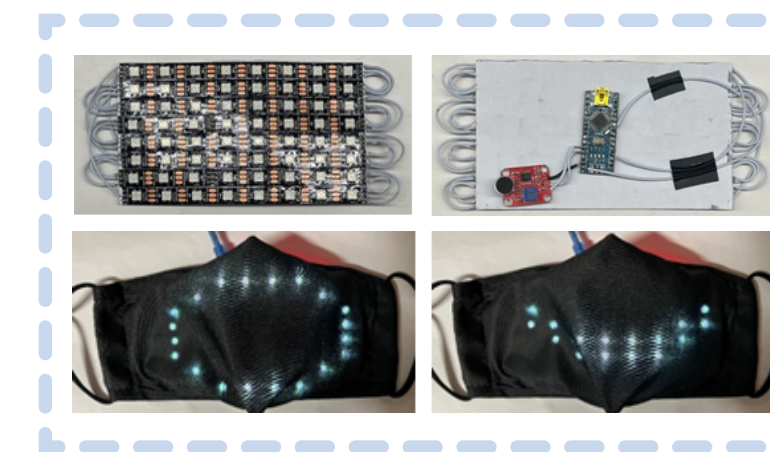
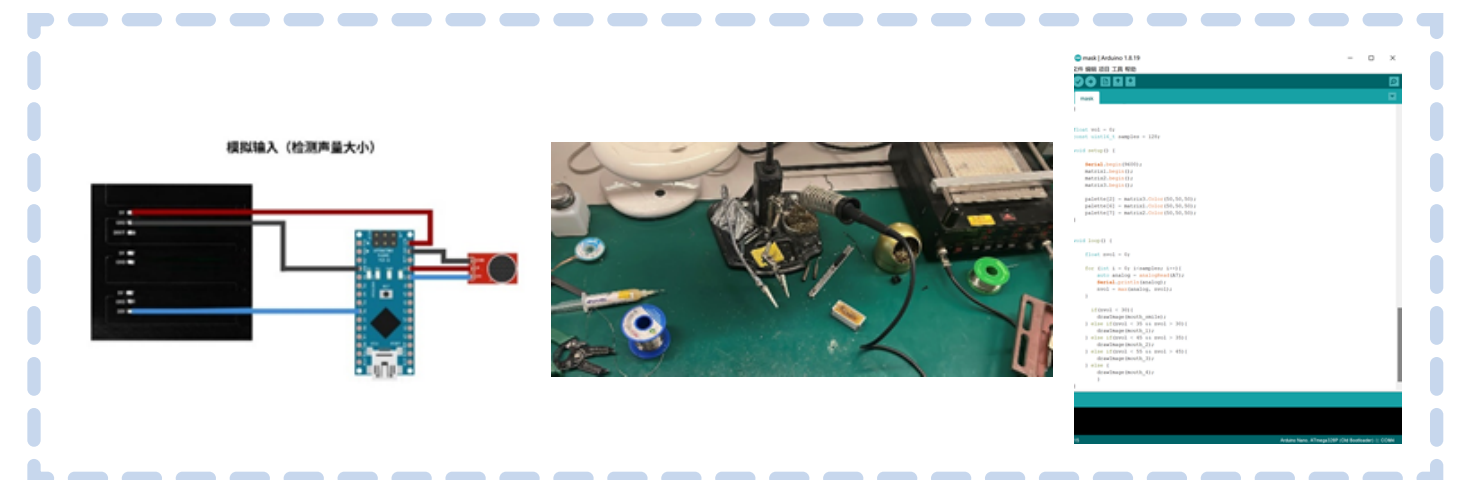
Medical masks block most facial expressions, which makes the receiver hard to interpret the content of conversation accurately, resulting in a decrease in communication efficiency.



Exposure of Facial Expressions VS. Sound Attenuation

Solution – LED Mask

- While providing facial information, the sound attenuation effect is similar to that of medical masks.
- Hypothesis: **LED masks can effectively promote communication between people.**



self-made LED mask by Arduino

