Project Perceiving the World through Technology - Demonstration

Team Number: 810

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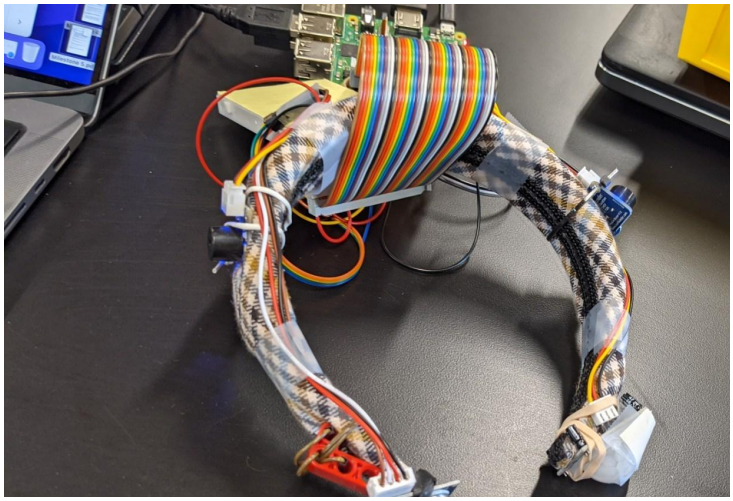
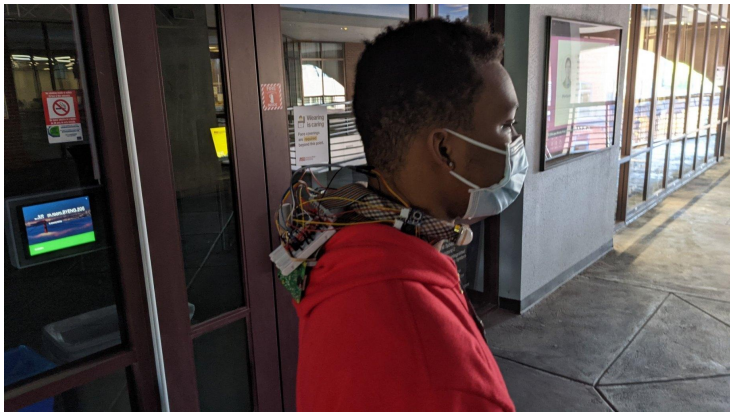
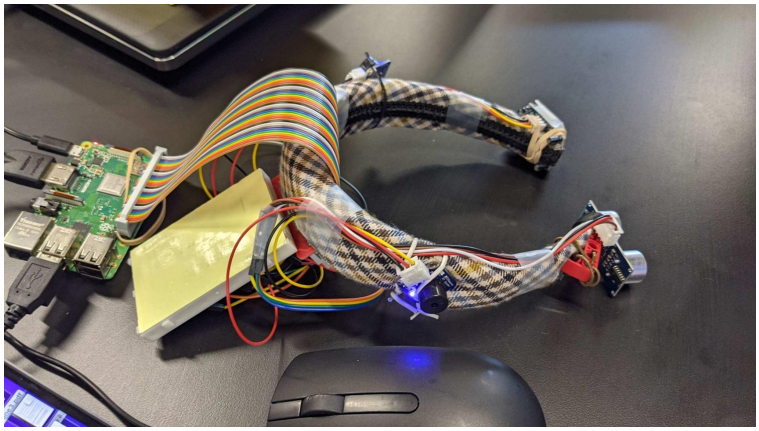
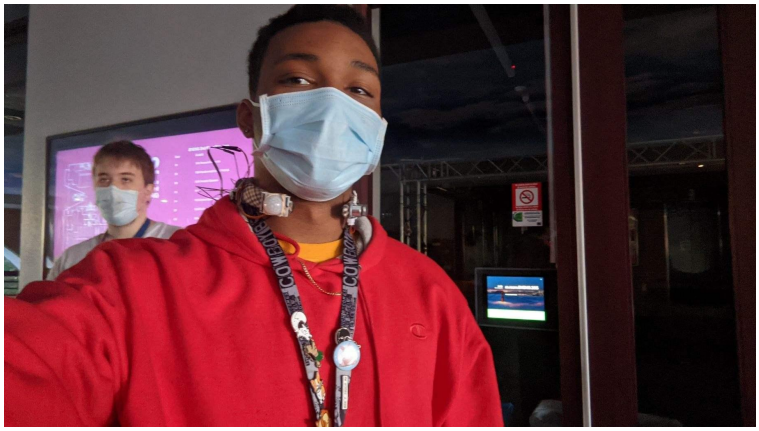
Description: Our neck band is supposed work as follows the button being able to turn everything off and on and then the ultrasonic sensors as you get closed to something it will beep faster and faster like car parking sensors and then the PIR sensor will utilize the second buzzer to beep when it detects motion in front of the person for example people, pets, and moving objects. If the person wants to use this they click on the button once and it will turn everything or on click again to turn everything off. Our main goal for this project was to let visually impaired people have the opportunity to be able be a bit safer in the open world they are able to tell how close they are getting to something using the ultrasonic sensor and with the motion sensor they are able to navigate slightly easier by knowing what's ahead of them. By bringing those two sensors together people are able better navigate spaces and be safer if they are visually impaired.

Photos:









Video:

https://youtu.be/8eNo_SEE8z0

Code:

https://drive.google.com/file/d/1f6Ccvvb5vhZi4WWsdt9aIiGjQNgyH-n9/view?usp=sharing