



# Third Eye

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By d'emoted



# Problem Statement

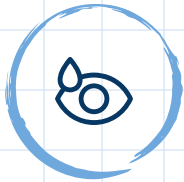
How might we enhance accessibility of deaf individuals when walking on shared paths by improving safety and situational awareness?



# Our Solution

Audio and motion sensitive wearable to provide user real-time  
and non-intrusive alerts about their surroundings.

# Key Features



## Advanced Sensors

Capture relevant sounds and detect rapid/approaching motion.



## Intuitive Feedback

Vibrations tailored to signal specific stimulus.



## User Comfort

Designed to be lightweight, compact and discrete.

# System

01

## Detect Motion

Motion sensor detects movement within 5m

02

## Detect Sound

Mic detects sound wave with frequency of 500 – 1000Hz (range of a bicycle bell)

03

## Signal sent

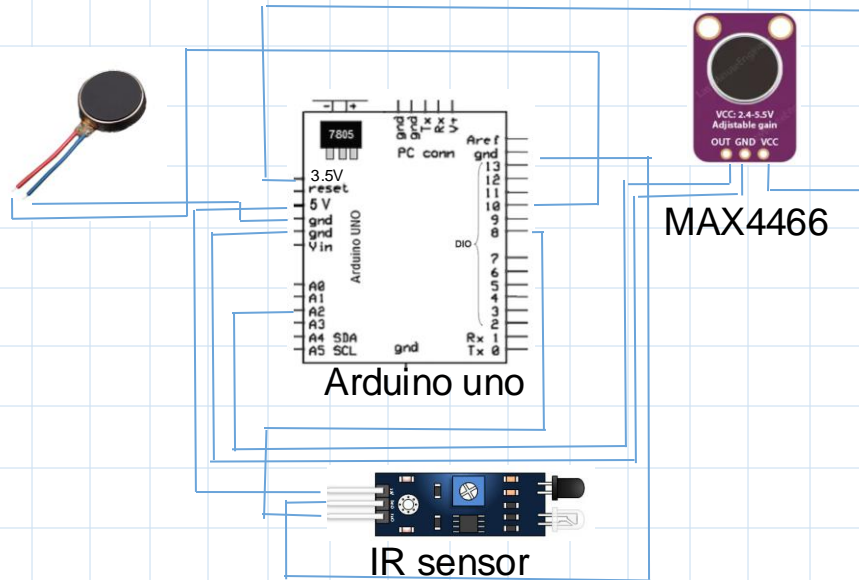
When both conditions of the sensors for a specific direction are fulfilled, a signal is sent to the relevant vibration motors

04

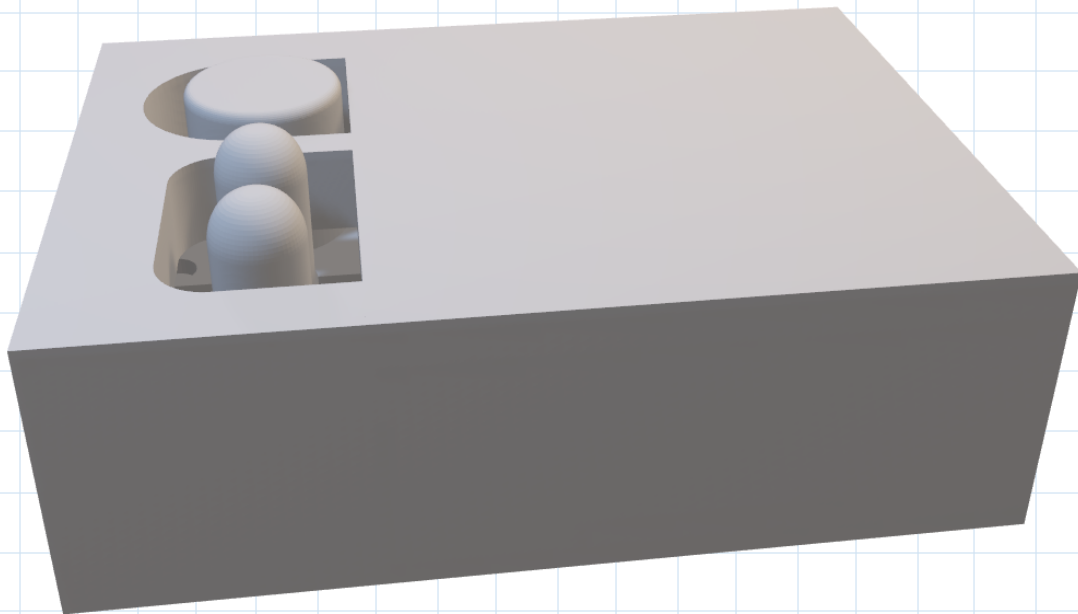
## Generate vibration

Vibration motor at the side where the bicycle is coming from vibrates to notify user that there is something coming from the back

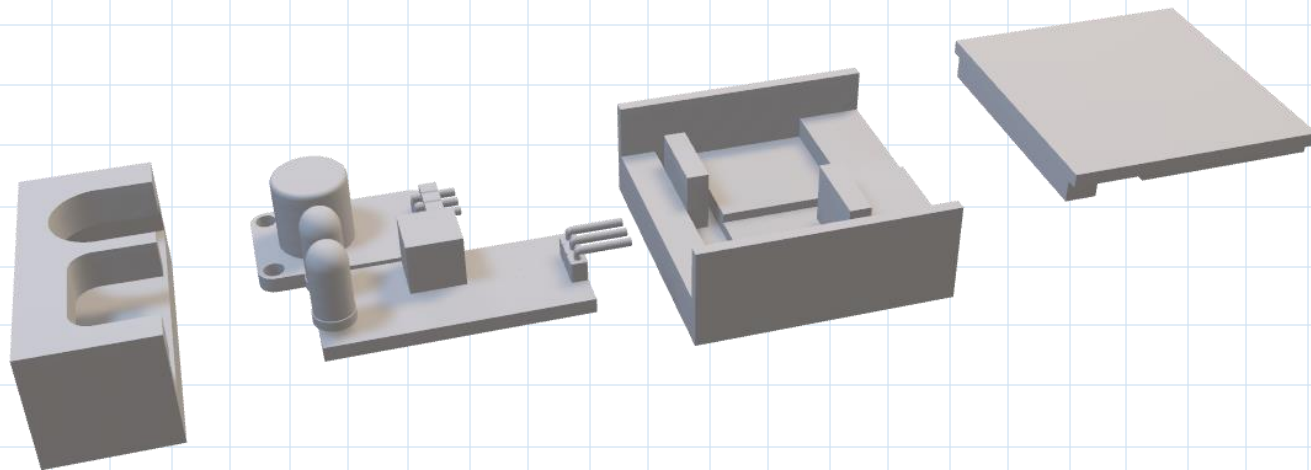
# Schematics



# 3D render of Sensors Pack



# Breakdown of Sensors Pack



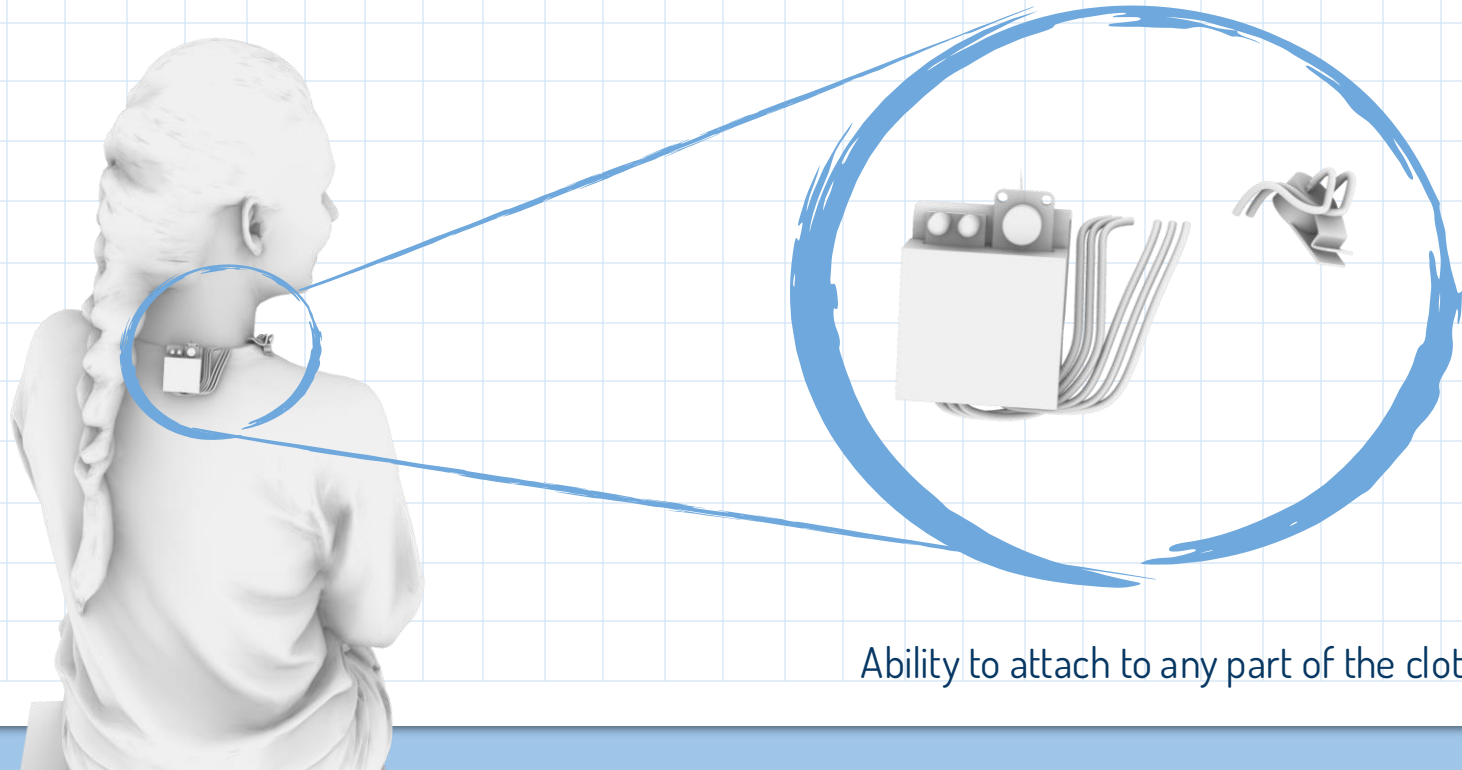




# Implementation

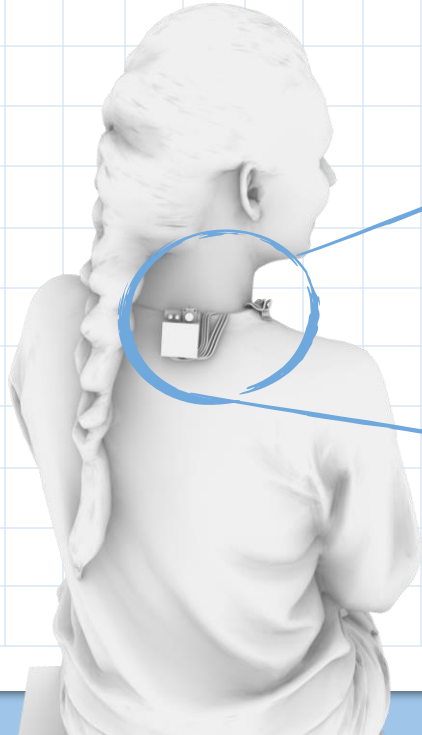


# Breakdown of Sensors Pack



Ability to attach to any part of the clothing.

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**Thank you!**