New Vision for the World

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Our team took on this challenge by copying the skills of some animals such as bats and dolphin, which emit sonar calls into their surroundings and receive it again to divert away from them. We preferred the design of glove to the cane and glasses because it will be easier to use in any direction according to the movement of arm. The glove combines some devices that control and organize all the functions of the prototype. Ultrasonic sensor detects the barriers in the way and then sending him alarm by vibration signals. passive infrared red sensor is used to determine if there are any humans in the surrounding of the user by alarming him. we used two of it by but them in right angle direction to scanning a big area. This characteristic provides a natural life for him in addition to the security by detecting if there are any thieves around him. The prototype helps blind person to use smart phones and technology in general by making a mobile application that tells him which is the button or the place that he had touched on the mobile screen, and provide safety for him by programming the mobile phone to send recorder, a picture for the around place, and the location of the phone to a certain person that blind choose by pushing 3 times on the power button in the phone . In addition to the reading section, the blind will be able to read text such as the normal human because him mobile will be his eyes by taking photo to the text that wanted to read then converting it to voice reading message to facilitate reading any book or text for the blind without need the braille language. the sensors are provided by a reasonable source of energy that is the Piezo electric chips. these chips generate electricity by friction or pushing on it and charge a battery which run the Arduino.

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