

Dobos Cosmin

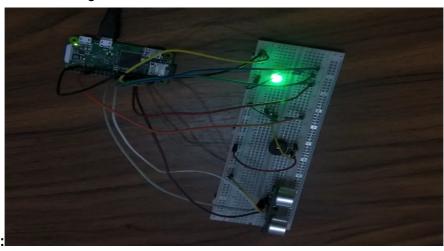
Mail:

Hackster link: https://www.hackster.io/cosmin-dobos/obstacle-detector-24a35b

Name: Obstacle detector

Elevator pitch: Depending on the distance of the objects from the sensor, the sound frequency and

color of the LED's will change.



Cover Image:

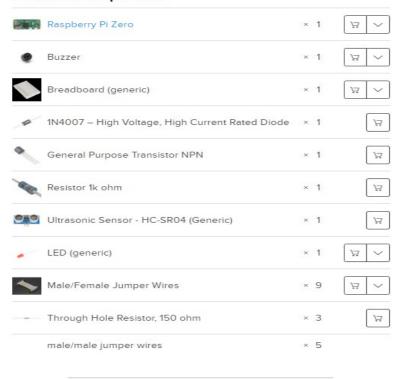
Story: I thought a project that can be used in many ways. Can be attached as a sensor for a car, to secure a dangerous area or security alarm(ex. for museum exhibits).

How it works: LED color and sound frequency varies depending on the distance of the object from the sensor .

Distance of the object (x) from the sensor	Sound frequency	Led Color			
X<10cm	1000Hz	Red			
10cm <x< 20cm<="" td=""><td>500Hz</td><td>Purple</td></x<>	500Hz	Purple			
20cm <x<30cm< td=""><td>250Hz</td><td>Blue</td></x<30cm<>	250Hz	Blue			
30cm <x< 40="" cm<="" td=""><td>100Hz</td><td>Yellow</td></x<>	100Hz	Yellow			
X>40cm	-none-	Green			

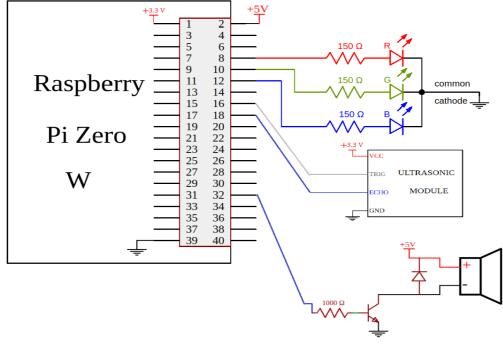
Things used in this project

Hardware components



Video: https://www.youtube.com/watch?time_continue=1&v=X_mQ-SOJ3Fg&feature=emb_title

The code: https://github.com/Dobanu123/SM-proiect/blob/master/ultimate_led_ultrasonic.py



Schematics: