EYERONIC2

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The purpose of my project was to create a device that can detect objects and warn the person with the device about the object. The hypothesis of this project was yes, an arduino uno R3 could be programmed to use sensors to see the objects and use a vibration motor as the warning. A pair of glasses was created using an arduino uno R3, an atmega328, an attiny85, and the newest version using an arduino pro mini. This is a model created as a continuation for this project. This new arduino has all the necessary components as the previous version, but they are all SMD. The same sensor is used which is the HCSR-04 parallax sensor. The new warning system is an 3.5mm audio jack. A beep is played through one side of any pair of headphones that are plugged into the audio jack. As a continuation project, a new device has also been created using the same function and parts. A shoe has been created. The shoe consists of all the same parts and also some additives. The warning for this device is still a vibration motor. The shoe is charged by walking. There are two piezo electric generator wired in parallel. These generators convert pressure into electrical energy. The shoe has a removable power bank. This power bank has a USB port so you can charge anything that needs a USB connection including the glasses.

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