

Hope Glasses for Blind

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The suffering of the Palestinian people from the Israeli occupation and this kind of suffering is the child Yusuf, who was shot in the eye, so we designed glasses to help the blind to carry out their daily tasks. We started working on 18/11/2019 and finished on 1/4/2019 and we designed a glasses that contained , The glasses have two sensors of (Ultrasonic) one gives a signal of being a block and measuring the distance in front of the blind. The other is to locate the holes. The sensors send the data to Arduino (Nano) which gives an order to the (MP3 Module) to output a special sound to the blind. It contains (HLC5883c) system that places the (Kebla) position to enable them to stir (move) to the correct direction left or right. The design has a Bluetooth receiver that will receive the data from the colored sensor (Tcs230) that is being separated from the glasses. It has a battery And Arduino that locates the color which is in front of the blind, and it receives the data from the app on the mobile that places the blind's position by the (GPS) and gives it special information about the time and the date. The data has features that help the blind for using. The glasses have a (3D) design for being a good fram and comfortable to the blind. It has, also, a battery of (600 MI) and it can be charged by the sun cells. The results show that the glasses will help the blind group significantly because it will enable them to perform daily functions.