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Categories: Arduino, Engineering project, Exhibition

Models & Inspire Award, Projects, Technology &

Innovation, Wearable Technology

Tags: Arduino IDE download, Arduino programming tutorial, Arduino project for students, Assistive technology for the visually impaired, Audio feedback device, Electrical engineering project, Electronics engineering project, Engineering student projects, Exhibition project, Obstacle detection device, School project ideas, Third Eye for the Blind, Ultrasonic sensors, Wearable technology

Product Description

INTRODUCTION:

According to estimates from the World Health Organization (WHO) Prevention of Blindness and Deafness Program: About **285 million people** are visually impaired worldwide: 39 million are blind and 246 million have low vision. To solve this problem we are going to make one of the best wearable technologies based innovative device which will detects nearby objects or obstacles and notify with buzzer. This devices is called "**Ultrasonic Glasses for the Blind**" Ultrasonic glasses for the blind are a technological solution designed to assist individuals with visual impairments in navigating their surroundings more effectively. The glasses utilize ultrasonic sensors to detect obstacles in the environment and provide sensory feedback, such as vibrations or auditory cues, to help users avoid collisions. This technology aims to enhance the independence and safety of visually impaired individuals by improving their spatial awareness and reducing the risk of accidents.

PRACTICAL IMPLEMENTATION:

The practical implementation of ultrasonic glasses involves integrating ultrasonic sensors, microcontrollers (such as Arduino Nano), vibrating motors, and buzzers into a wearable device. The ultrasonic sensor detects objects in the user's path by emitting high-frequency sound waves and measuring the time it takes for the waves to bounce back. The Arduino Nano processes this information and triggers the appropriate feedback mechanism, such as vibrating

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motors to provide tactile cues or buzzers to provide auditory cues. The glasses can be customized to suit individual preferences and needs. They can be designed as a standalone device or integrated into existing glasses frames. The practical implementation also includes optimizing the sensor range, sensitivity, and feedback intensity to ensure accurate obstacle detection and effective communication of information to the user.

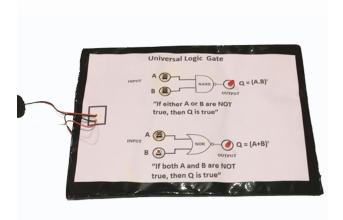
MARKET NEED OF ULTRASONIC GLASSES FOR THE BLIND:

The market need for ultrasonic glasses arises from the challenges faced by visually impaired individuals in their daily lives. People with visual impairments often encounter difficulties in navigating unfamiliar environments, detecting obstacles, and maintaining a sense of spatial awareness. Traditional mobility aids, such as canes or guide dogs, have limitations and may not provide comprehensive assistance in obstacle avoidance.

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Categories: Electronics, Logic Gate, Physics, Projects,

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Tags: class 12th science project and experiment, logic

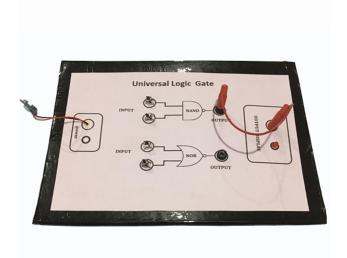
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Categories: Electronics, Logic Gate, Physics, Projects,

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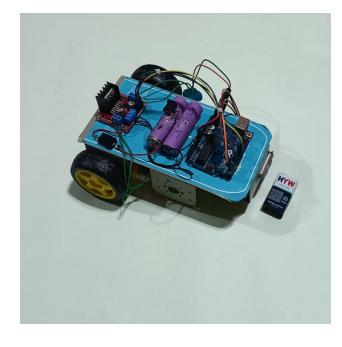
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Categories: Engineering project, IC & Transistor, Mini

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Categories: Android / Smartphone Controlled, Engineering project, IOT, NodeMCU, Projects

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Categories: Engineering project, IC & Transistor, Mini

Project, Projects

Product Description

INTRODUCTION:

Wireless power transmission is a technology that enables the transfer of electrical energy from a power source to an electrical device without the need for physical wires or direct electrical contact. While there are more complex and advanced methods of wireless power transmission, I will outline a simple approach using electromagnetic induction.

APPLICATION:

Wireless energy transmission has various applications across different industries and fields. Here are some notable applications:

1. Wireless Charging of Devices: One of the most common applications of wireless energy transmission is in wireless charging of devices such as smartphones, tablets, smartwatches, and wireless earbuds. This technology eliminates the need for physical cables and allows for convenient and efficient charging.

2. Electric Vehicle Charging: Wireless energy transmission is also being used to charge electric vehicles (EVs) wirelessly. This technology enables the charging of EVs by simply parking them over a wireless charging pad, eliminating the need for physical charging cables.

These are just a few examples of the diverse applications of wireless energy transmission. As technology continues to advance, we can expect to see more innovative applications in various industries and fields. **ADVANTAGES:**

- 1. Convenience: Wireless power transmission eliminates the need for physical wires, allowing for easier device charging or power supply without the hassle of plugging and unplugging cables.
- 2. Flexibility: Devices can be charged or powered without the limitation of cable length, providing more flexibility in device placement and movement.
- 3. Safety: Wireless power transmission eliminates the risk of electric shock or short circuits due to exposed wires.
- 4. Reduced wear and tear: By eliminating physical connectors, there is less wear and tear on device charging ports, resulting in increased durability.

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Categories: Energy, Engineering project, Exhibition Models & Inspire Award, IC & Transistor, Mini Project,

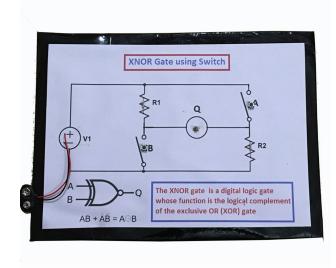
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Tags: class 12th science project and experiment, logic

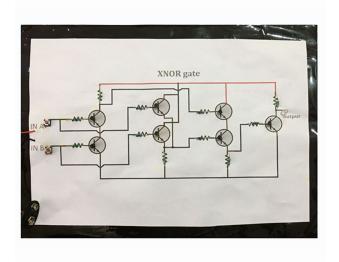
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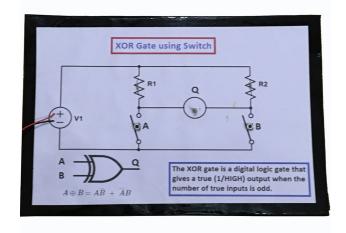
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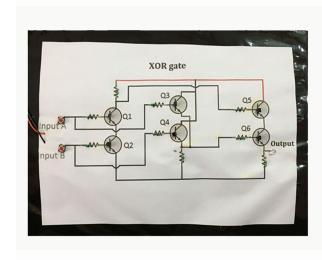
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