

EYE-RECOGNIZE

Blind Sight Assistant System

Advisor:
Dr. Dani Tannir

Group members:
Rita Abi Akl
Elliott Haddad
Mohammad Al Abbas

HOW IT WORKS

1. Sensor Detection:

Ultrasonic sensor detects objects in 100-150 cm range

2.Vision Computation: Picture is taken and sent to the Raspberry Pi; Image Classification using TensorFlow, OpenCV and Inception V3

3.Text to Speech:

gTTS transforms the result to speech

4.User Notification:

User gets notified with what's in front of him

5.Rest Mode:

If user is idle, the user toggles a switch to mute the system

FEATURES

Guide people indoors so they can become independent

- Ease of use
- Long operation time of 5 hours
- Comfortable design
- Gain independence
- Rediscover the world through our eyes or through Eye-Recognize

MOTIVATION

- 253 million visually impaired worldwide
- They Require help from others or guide dogs
- Guide dogs are not allowed in public forms
- Limiting 253 million people from moving freely

DIAGRAM

