Sight for the blind

Abstract

A device enabling the blind to see the surrounding by voice feedback meaning telling the user about the surrounding just as a human would be describing it to them (this is the ultimate goal). achieved using live footage and recognizing the surrounding by image processing just like Google images has image search or some other method .

Theory of implementation

Achieved using live footage and recognizing the surrounding by image processing just like Google images has image search or some other method . And make a primitive device that could capture images and google search it to know the main components and give a feedback to the user about it and its position as it has sensors to do the job (obviously the array of objects that would have a feedback coded would be limited in the primitive device).

Implementation steps

1) Capture footage from the camera and search for knowing the main components
2) Based on the suggestions from the search we would try to use natural language to give feedback about it to the user.

Cost Estimate

Not more than 4k.

Salient Features

1) Letting the blind “see” the world surrounding him/her.
2) Making the blind more independent.