BEFRIEND

Hardware assister for blind people

Team Visiondary

Advisor: Sibel Tarı
Instructors: Atilla Özgit
Emre Akbas
Assistant: Serdar Ciftci

Image Processing

BEFRIEND

Change the way you see the world!

Obtain data from environment
Process those data
Inform user vocally

What is our motivation?

Some small everyday tasks can be challenging for blind people. BeFriend is designed to **create a sense of vision**, solve problems that they have to face with and make them take more part in life.

What is our solution?

A hardware tool helping blind people by giving information about the environment and creating a remote communication with a relative. Information of recognized texts, distance and size of objects etc. will be provided through headphones.

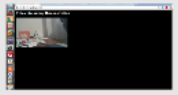
How the system works?

Befriend detects the objects using **image processing techniques** and the distance using **sensor**. Blind people are also able to send images and get help through a **client-server network** communication module.

THANK YOU

Real Time Video Streaming on Web

- UDP Client-Server Communication
- Real time streaming of camera mounted on hardware
- Textfield to write directives to send back to the person in need



Prezi

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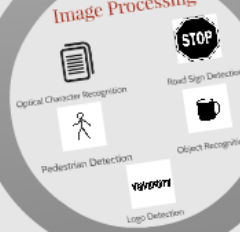

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Members:
Ilkyaz Yasal
Okan Altıngövde
Sema Köse
Mehmet Can Avaroğlu

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Instructors: Atilla Özgit
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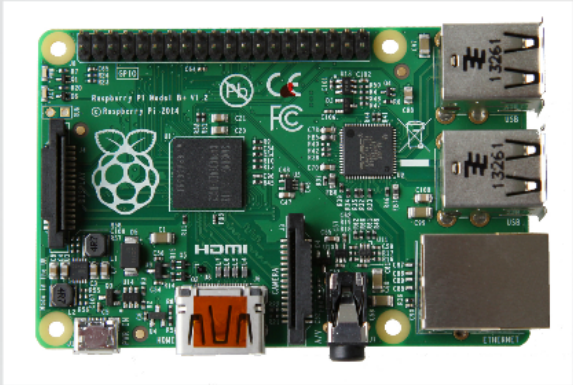

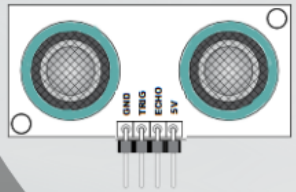

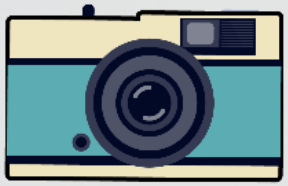

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Okan Altıngövde
Sema Köse
Mehmet Can Avaroğ

Image Processing

Optical Character Recognition

Road Sign Detection

Pedestrian Detection

Object Recognition

Logo Detection

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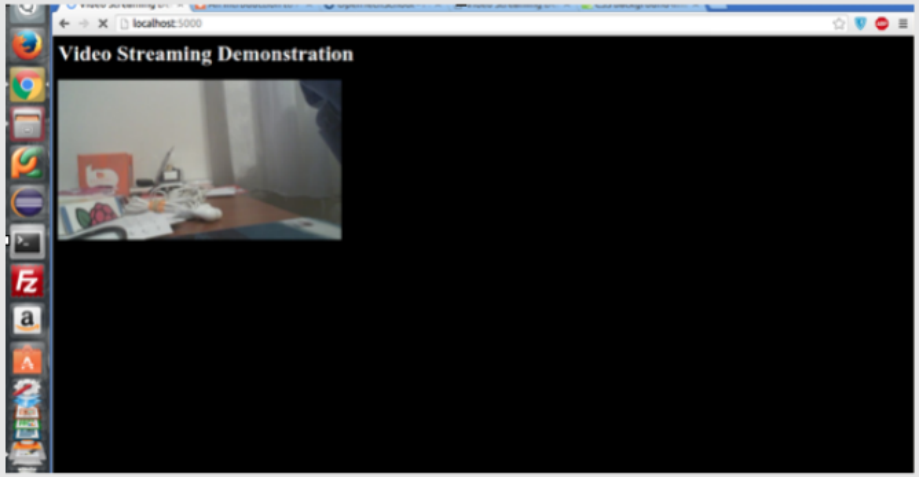

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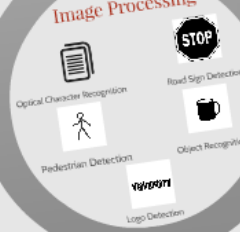

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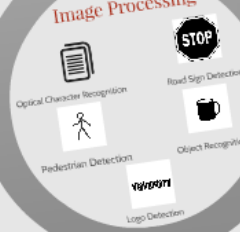

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