Hardware assister for blind people



Image Processing

Team Visiondary

Monthern Dijner Desal Chien Abrogatische Bertrau Klauf Platherner Clins deut

Advisor Sibel Tan Antifectors Addle Orgit Errice Alches Assistant: Sendar Ofter



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

Beliviend detects the objects and the image processing techniques and the distance using sensor. Who people are also able to send mings and get help through a client-server network communication module.



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







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Prinders
Street Need
Ungstatingtonle
Street King
Anderson Cine Assert

Advisor: Sibel Tau Instructors: Atilia Orgin Error Alchus Assistant: Sendur Colto

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Team Visiondary

Members: Ilkyaz Yasal Okan Altıngövde Sema Köse Mehmet Can Avaroğlu Advisor: Sibel Tarı

Instructors: Atilla Özgit

Emre Akbaş

Assistant: Serdar Çiftçi





What is our motivation?

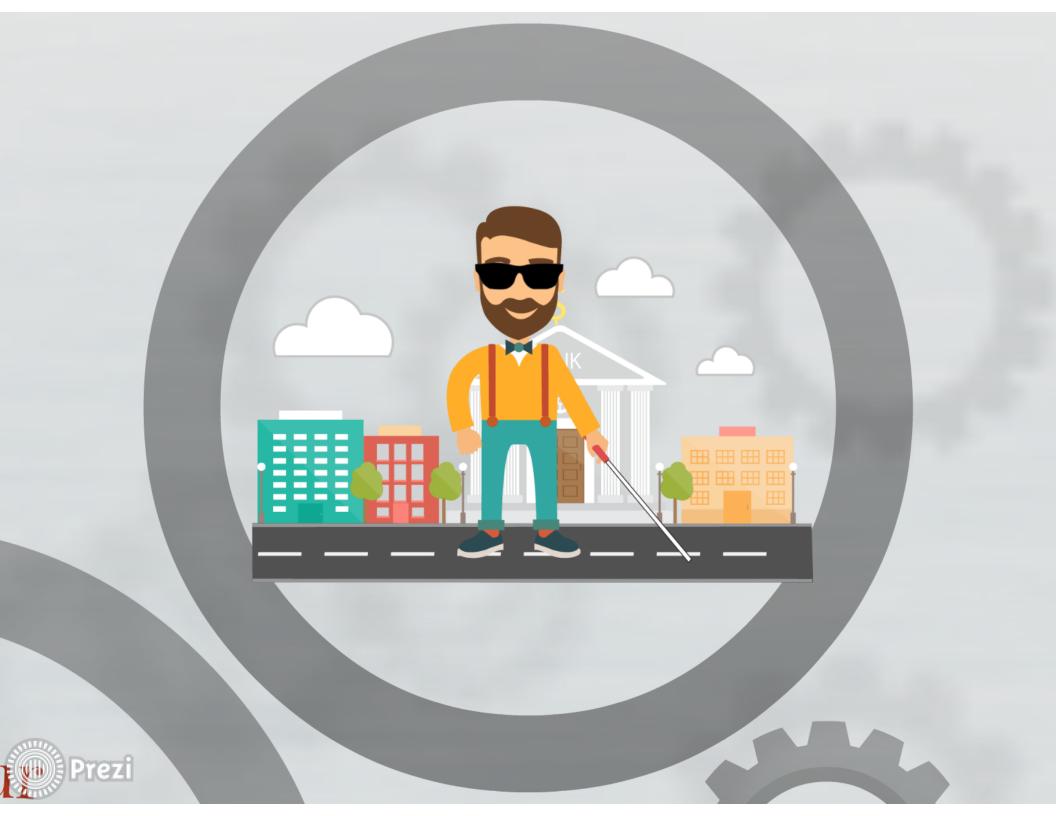
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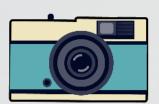
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Okan Altıngövde Sema Köse Mehmet Can Avarog

Image Processing



Optical Character Recognition



Pedestrian Detection



Road Sign Detection



Object Recognition



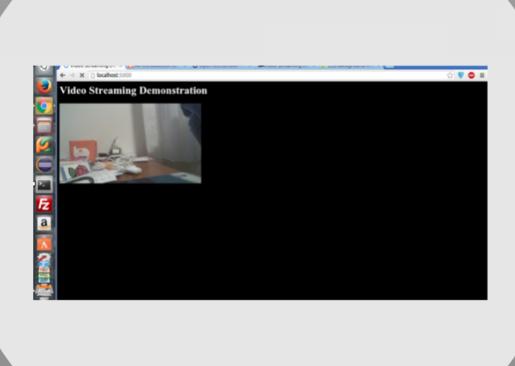
Logo Detection



Real Time Video Streaming on Web

- UDP Client-Server Communication
- Real time streaming of camera mounted on hardware
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