

МІНІСТЕРСТВО ОСВІТИ І НАУКИ УКРАЇНИ
СУМСЬКИЙ ДЕРЖАВНИЙ УНІВЕРСИТЕТ
КАФЕДРА ІНОЗЕМНИХ МОВ
ЛІНГВІСТИЧНИЙ НАВЧАЛЬНО-МЕТОДИЧНИЙ ЦЕНТР

МАТЕРІАЛИ ІХ МІЖВУЗІВСЬКОЇ
НАУКОВО-ПРАКТИЧНОЇ КОНФЕРЕНЦІЇ
ЛІНГВІСТИЧНОГО НАВЧАЛЬНО-МЕТОДИЧНОГО ЦЕНТРУ
КАФЕДРИ ІНОЗЕМНИХ МОВ

“TO MAKE THE WORLD SMARTER AND SAFER”

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DEVICES FOR THE DISABLED

A.I. Sinyagovska – Sumy State University, group IN-41

V. S. Kurochkina – E L Adviser

Some people are not able to use “standard” devices that we use in our daily activity. Some devices have been especially developed to lower these differences. Some disabilities mean that the input devices need to be placed at convenient location for person.

A person who is limited in using arms, can use a foot mouse. It consists of two segments: the first to control the cursor, the second to select. Most of them include straps.

A person who can't use a hand or a foot to operate a mouse and a keyboard can take the advantage of an eye typer. A camera is set to focus on the user's eye, it determines where the user is looking and monitors movements which are made by eyes. Mouse clicks are done with a slow blink.

Brailee is a writing system for blind and visually impaired people. It's made up of raised dots that can be “read” by touch. Brailee display is a piece of equipment that is connected to a computer.

Speakers can be useful for visually impaired people. A text can be converted into speech and reproduced by the speaker in a sound format.

Dennis Hong developed a car that actually can be driven by the blind. The aim is to integrate several computer systems, sensors and cameras to observe the environment around. Also, it designed to provide alternative forms of sensory input, including sound and vibration. This may include seat vibrators, pulsing vibration signals in gloves, worn by the driver.

Prosthetic arms with control can even peel a grape. The arm supports a number of customizable controls and modular components, making it easy to do individual needs.

These days, people try to help each other by means of making so complex and unusual devices. Using a computer and up-to-date devices must be not just for the able-bodied, but for everyone.