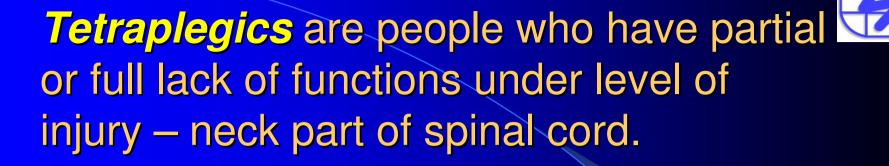
# CROATIAN ASSOCIATION OF PARAPLEGICS AND TETRAPLEGICS



Using of Present- Day
Equipment and Technology for
Quadriplegic Persons

Ana Slonjšak, dipl. oec.



- They use a wheelchair independently or by help
- Usually a result of an accident
- Their whole life is fundamentaly changed
- Physical abilities vary
- Majority is dependent on assistance
- They are forced to learn how to live again and accept their disability



## My personal example

- Result of a car accident in 1992
- Abilities are minimal and assistance is neccessary
- Continued study of Economics (important accessible transport and building of Faculty)
- Graduated 1998
- Great support from family and friends
- Working at home using computer and mechanical extensions
- After 1998 condition worsens and computer ussage is possible only by voice commands



## Home automation

 Automate my home and working space with modern technology

#### Two reasons:

- greater personal independence
- help to those who assist and live with me



## Goals

- Communication (telephone, e-mail)
- Using computer (software applications)
- Controlling home devices:
  - Light switches
  - Home Theater
  - Heating
  - Electric bed
  - Doors, locks etc.

## Today's achievements



# DRAGON NATURALLY SPEAKING (partial solution)

#### **ADVANTAGES**

- Voice Controll
- Managing Computer Software
- Not expensive
- Example: E-mail,
   Internet, Microsoft
   office etc.

#### **DISADVANTAGES**

- Sensitive on exact pronounciation
- Not localised (into Croatian language)
- Automation of home devices is not possible (only software)



## Discovering technology

- Internet discovered many ways to improve quality of life of disabled people
- Development of modern technologies is exceptionally important to all of us
- Modern technology at home is not some prestigious case, but something very useful
- Through large selection I picked up a product as one of possible solutions



## HAL 2000 Deluxe Package

It uses vocal commands for managing home devices

## Example:

"Hal, turn off the light"

or

"Hal, turn on TV on channel 2"



## HAL 2000 Deluxe Package

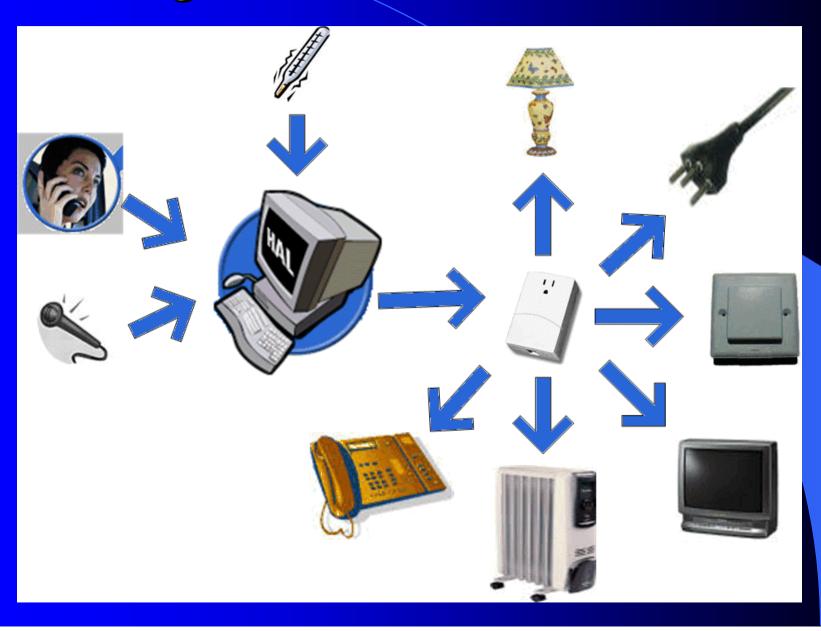
#### HARDWARE

- X10 Home devices controlled by PC
- No rewiring necessary (using home power grid)
- Many different devices of various purposes
- Possibility of Modulation

#### SOFTWARE

- Vocal Management
- Controlled by Telephone or Microphone
- Learns vocal commands
- High level of intelligence

## Manageable devices





## Problems

- Adaption to European Standard Voltage
- Not localized (into Croatian language)
- Price:

US\$ 1000 in USA

EUR 1500 in Europe

Requests technical knowledge

## Conclusion



#### The quality of life:

Every person will have a full and worthy life and present day technology and equipment give possibilities for it

#### • Problem:

The society does not recognise these needs as necessery and helpful to personal assistants.

#### Solution:

Efforts individuals and whole society should be directed towards law regulation of giving this helping technology to people with high level of injury.



For this, an experience of an individual is essential, as well corporation with those scientific institutions, knowing what and in what way this is possible to implement in our circumstances.

More about *HAL 2000*:

http://www.automatedliving.com

# Be active, involved in life and take challanges is key of quality of life.





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