

Technology and Aging 2018

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Technology and Aging 2018

- Assistive Technology of Ohio
 - Adaptive Toy Lending Library
 - Computer Refurbishing Program
 - Assistive Technology Device Lending Library

Technology and Aging 2018

- Assistive Technology of Ohio

Industrial Systems Engineering

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Technology and Aging 2018

- A look back in time....
 - The Raised Print Bible
 - The Talking Pen

Technology and Aging 2018

- Newest technologies come from two areas of life
 - Medicine
 - The elderly
 - The military
 - Soldier safety / weapons systems
 - Why not people with disabilities?

Aging in Place

- Goal: “ to develop technology to assist the aging population in continuing to live meaningful lives at home.”

Aging in Place

- Communication / Interaction / Action
- Safety
- Medical Monitoring

Aging in Place

- Communication / Interaction / Action
 - Staying in touch with the outside world
 - Telephones for the aging population



Aging in Place

- Telephones
 - Big Keys
 - Volume Control



Aging in Place

- Telephones
 - Big Keys
 - Volume Control
 - Large Display
 - Called ID
 - Audio Feedback
 - Location Dot



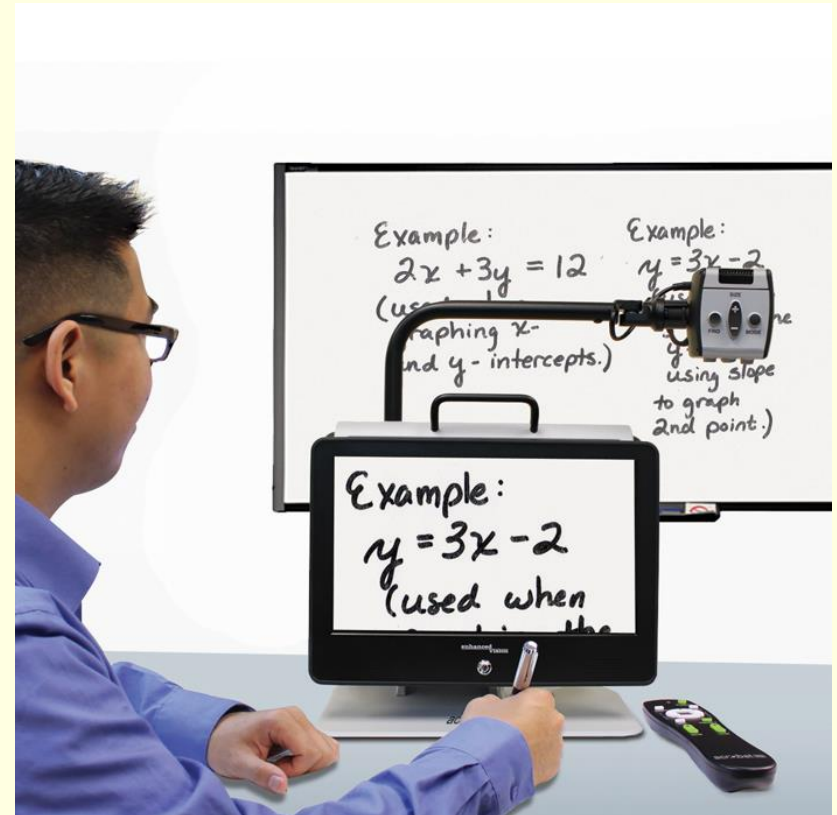
Aging in Place

- Vision
 - Reading books
 - Medications
 - Letters



Aging in Place

- Vision
 - Reading books
 - Medications
 - Letters
 - Near or Far



Aging in Place

- Vision
 - Reading books
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 - Letters
 - Near or Far



Aging in Place

Reminder Rosie – Senior reminder assistant alarm clock



Aging in Place

Mother



1. Motion-detection system allowing people with disabilities to remain in their homes.
 1. Has your front door opened?
 2. Has your fridge been opened?
 3. How did you sleep last night?
 4. (out of business)

Aging in Place

BeClose



1. Uses motion sensors all over the house, rather than cameras.
2. Data can be collected on eating, sitting, sleeping, bathroom use, and general activity levels.
3. Transmits information via cellular network – no need for the Internet to be installed.
4. Minimum of about \$500 to set up and up to \$100 per month for service.
5. Now part of greater security system, alarm.com

Aging in Place

GrandCare



Aging in Place

GrandCare



1. Comes with webcam and a 24-hour support system.
2. Alarms on doors and windows
3. Multiple cameras for safety monitoring.
4. Wellness sensors and motion detectors.
5. Programmable pill boxes that open at prescribed times and give out alerts.
6. Give yourself a blood pressure check.
7. Can have video chats with family and friends.
8. Has games and trivia contests built in to the system.

Aging in Place

MindMe



1. GPS location system with 2-way communication capability.
2. Can be put in a car, worn around the neck or on a belt.
3. Can find anyone who is lost if they have the device.
4. People who are lost can push button and speak to MindMe operator and ask for assistance.

Apps

Talkitt



1. Takes unintelligible speech and translates it into clear English and verbalizes it.
2. Key is the programmability of the device.
3. Person must be able to say something consistently, even if it is unintelligible.

Apps

RogerVoice



1. Uses voice recognition to help the deaf be able to speak to anyone on a smart phone.
2. Translates the hearing person's words into words on the deaf person's screen.
3. Supposed to debut in 2015 for Android devices.

Companionship

- Perfect Petzzz
 - Sleeps
 - Breathes
 - Soft



Companionship

- Amazon Echo
 - Gives weather
 - Tells jokes
 - Plays songs
 - Sets alarms
 - Maintains lists



Companionship

ElliQ – Proactive Social Robot
Currently in Beta Testing



Companionship

- Telepresence Robots
 - Double
 - Beam
 - Temi



Companionship

- Telepresence Robots
 - Interactive
 - Voice / Video
 - Requires Wi-Fi
 - Request acumen



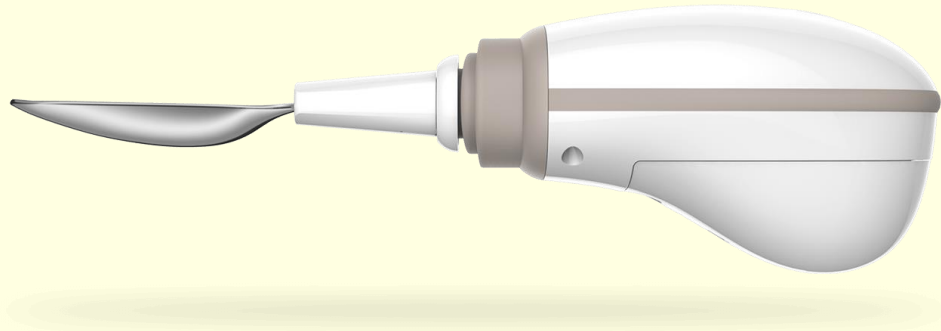
Feeding

- Obi Robot
 - Easy to train
 - Diner controlled
 - Must activate switches



Feeding

- Gyenno Spoon
 - Counteracts tremors
 - Parkinson's patients



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