



Objectives									
	ldentify	Describe	Review	ldentify					
	-Identify assistive technology read ly available in the community.	-Describe the potential applications of assistive technology in home and community settings.	-Review the benefits of assistive technology in enhancing independence in daily life.	-Identify access options for obtaining assistive technology.					

# **Disclaimer**

- -I have no affiliation, nor do I receive compensation for any of the products discussed
- -I have not personally trialed all the items discussed here but hope to provide an assortment of available assistive technology
- -This presentation is meant to be a glimpse at items available and not deep exploration

# What is Assistive Technology?



- •An intervention to improve a persons' performance, enable participation or maintain meaningful engagements
- •Can be as simple as velcro fasteners to complex computer software
- •Bridges the gap between what the person wants
- and needs to do and what they are capable of
- •Technology may be limited by the user's ability to implement it

# Why is it important?







Increases Independence

Improves functional outcomes

Increases safety; both in the

# **Commercially Available Products**

- •These items can be purchased within the community
- •Are not necessarily developed for individuals with disabilities
- •Do not require insurance or prior authorization to get
- •Hopeful easy to use, set up and have technical support available

# Human Activity Assistive Technology Model

- •HAAT model- Humans are completing and activity, in a context with assistive technology.
- •This is where utilizing a professional may be helpful in linking technology with a person and educating on its use/applications

Cook et al

# Assistive Technology for Everyday Use

- Dressing
- •Smart Medication
- •Smart Assistants
- Omari Assistant
- •Smart Plugs
- Smart Lights
- •Smart Kitchen Appliances
- Door Openers
- Smart Thermostats
- Smart Window
- Shades
- Adaptive Gaming
- Apple
- •And many more!

# **Dressing**

Several popular clothing brands offer adaptive dressing options, catering to individuals with various physical disabilities or challenges. These brands focus on providing clothing that's easier to put on or take off, offering features like magnetic closures, Velcro, side openings, and elastic waistbands

# **Tommy Hilfiger Adaptive**

oFull line of clothing for men, women, and children olncludes magnetic closures that look like buttons, adjustable hems and additional modifications



# Magna-Ready

oFull line of clothing for men, women, and children oAll dothing items have magnetic closures that look like traditional clothing oClothing made specifically to worn in a seated position for wheelchair users oWash and wear oFor individuals with limited mobility and dexterity oIncludes business, casual and leisurewear.









# Smart Medicine Dispenser Smart Medicine solutions focus on ease of use, clear organization, and reminders to ensure the correct medication is taken at the right time. MedMinder PilDril

# **Smart Home**

Smart home appliances are designed to make everyday tasks more convenient and efficient by using automation, remote control, and intelligent technology.

# Amazon, Google and Apple all have smart assistants/speakers that assist with home automation (controlling other items in your home) Amazon Alexa Google Nest Hub Apple HomePod



# Smart Plugs Smart plugs work with the previous Smart Assistants to make any device that plugs in into smart device Amazon Smart Plug TP-Link Kasa









# **Thermostats**

Smart thermostats are a great way to improve your home's energy efficiency, comfort, and convenience. They allow you to control the temperature remotely, learn your preferences, and adapt to your routine automatically.

Nest Thermostats learns your schedule and adjusts automatically



# **Smart Blinds**

Smart blinds allow you to control the amount of natural light entering your space, increase privacy, and improve energy efficiency – all remotely via an app or voice commands.



Sere na Shades by Lutron

lk ea Fyrtur Smart Blinds

# **Adaptive Gaming**

Makes video games more accessible and enjoyable for a broader range of players, especially those with disabilities. The idea is to adapt or modify gaming experiences to meet the diverse needs of players, enabling them to engage with games in ways that are comfortable and fair.

PS5- Access Controller





# **Apple**

Apple has long been a leader in providing assistive technology to make its devices accessible to a wide range of users, including those with disabilities. The company has integrated numerous features into its devices – iPhones, iPads, Macs, and more – that help users with visual, hearing, motor, and cognitive impairments.







# Where to get it?

- All of these items are available commercially
- · Amazon, item websites, chain stores
- The end of the presentation has a list of all the websites discussed today



# **But I need more help**

- North Carolina Assistive Technology Program-NC has 9 centers across the state
- Professional services, such as Best Buy's Geek Squad, and gig services, like Angi and TaskRabbit, offer installation services nationwide
- Contact your local Assistive Technology Professional to help match items with needs (RESNA directory)

# Websites of items CLOTHING Tommy Hilfiger Adaptive- https://usatommy.com/en/ts-//magnaredy.com/. Magna-Ready- https://magnaredy.com/. Smart Adaptive O athing- https://smartadaptiveclothing SHOES Zappo Adaptive- https://www.zappos.com/ o/ adaptive Nike- https://www.nike.com/w/m.ms-easy-on-offstrees SMARTHOME Assistance/speakers • Amazon Alexa-https://www.amazon.com/ale • Google Nest Hub-https://sbre.google.com/

Plugs
Tellnk https://www.to-ink.com/us/home-neworking/smatt-plug-https://www.amazon.com/Amaton-smatt-

Apple HomePod - https://www.apd.ecom/homepod/

Websites of items

# SMARTHOME

Appliances
- Samsung Family Hub Refrigerator- https://www

- June Oven- https://juneoven.com/pages/smart-oven.
   Room ba Vacuums/Mops- https://www.irobotcom/.

Dog Operers
-Open Sesame- https://www.opensesamedoor.

Doorbell
-Birk-hths://www.amazon.com/Flirk-Video-Doorbell/
-Pirg-hths://www.ado.com/
-Pirg-hths://ring.com/

Thermostats
-Nest- Log into the Nest app

# Websites of items

# SMARTHOME

Shades--Luton-CustomSmart Blinds and Shades | Serem Shades by Luton. -kea Fyrtur Smart Blinds-Materized Blinds - Automatic Smart Flectric Blinds

Gaming
-Playstatin 5- Access Controll or - <u>Access controllar | A customizable</u>
-controller kit for ESS, (Et ayStatin at US),
X-Box Adaptive Controller - <u>Lithery January show controller</u>
It's /arm-exercise /controller-

# Medicines -MedMinder Smart Pill Dispenser- MedMinder Personali and 4 t. Home Pharmacy -Pill Drill - Home

Apple -Apple Accessibility- Accessibility - Apple -

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North Carolina Assistive Technology Program-North Carolina Assistive Technology Program | NCDHHS

Geek Squad- Services - Best Buy

RESNA-Certified Professionals Directory

# References

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–Kruse, David, et al. "Assist ive Technology's Potential to Improve Employment of People with Disabilities." Journal of Occupational Rehabilitation, vol 34 no. 2, 2024, pp 299–315. doi:10.1007/s10926-023-10164-w.