

TECHNOLOGY IS WHERE IT'S "A.T."

Presented by Jensen Tabil, B.A.



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## WHAT IS ASSISTIVE TECHNOLOGY?

“As the name suggests, assistive technology **provides assistance to those people, who need it the most.** The term doesn't refer to any particular technology but a **family of technologies.** If a particular tool or device **helps someone rehabilitate,** then it qualifies as assistive technology. If it **helps someone to adapt to a certain environment,** it is assistive technology.”

# MISSION OF ASSISTIVE TECHNOLOGY





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A word cloud centered around the themes of education and participation. The words are arranged in a roughly circular shape, with 'educational' and 'vocational' being the most prominent. Other significant words include 'participate', 'improve', 'promote', 'independence', and 'life'. Smaller words like 'students', 'activities', 'home', 'outcomes', 'experiences', 'curriculum', 'possibilities', 'potential', 'access', 'quality', 'environments', 'accessibility', 'general', 'community', 'accessible', 'social', 'results', 'empowers', 'school', 'achieve', 'live', 'highest', 'dignity', 'maintain', 'aspects', 'control', 'contribute', 'increasing', and 'independently' are also present.

increasing  
independently  
participation control  
aspects contribute  
independence  
students live achieve school  
maintain highest life empowers  
dignity vocational results  
full participate social  
activities home educational  
outcomes improve accessible  
experiences curriculum community  
promote general  
possibilities potential access  
accessibility quality  
environments

## MISSION OF ASSISTIVE TECHNOLOGY

- To enable independence and participation in every aspect of community life - including employment, education, and leisure.
- Demonstrations, device loans and trials, financial assistance, etc.

## WHAT ARE SOME EXAMPLES OF AT?

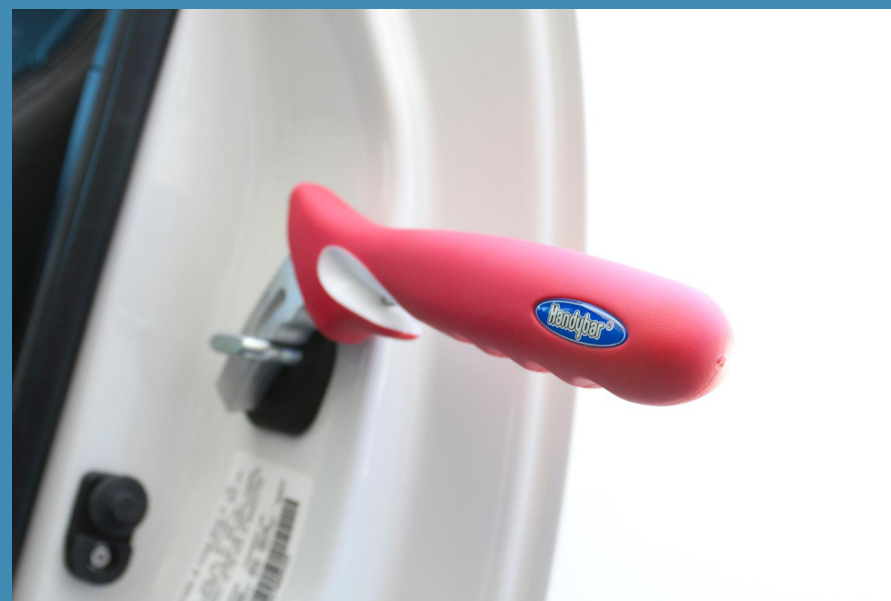
- Daily Living
- Vision
- Hearing
- Learning
- Augmentative Alternative Communication (AAC)
- Environmental Control

DAILY LIVING

## DAILY LIVING



## DAILY LIVING



VISION



# VISION



## VISION

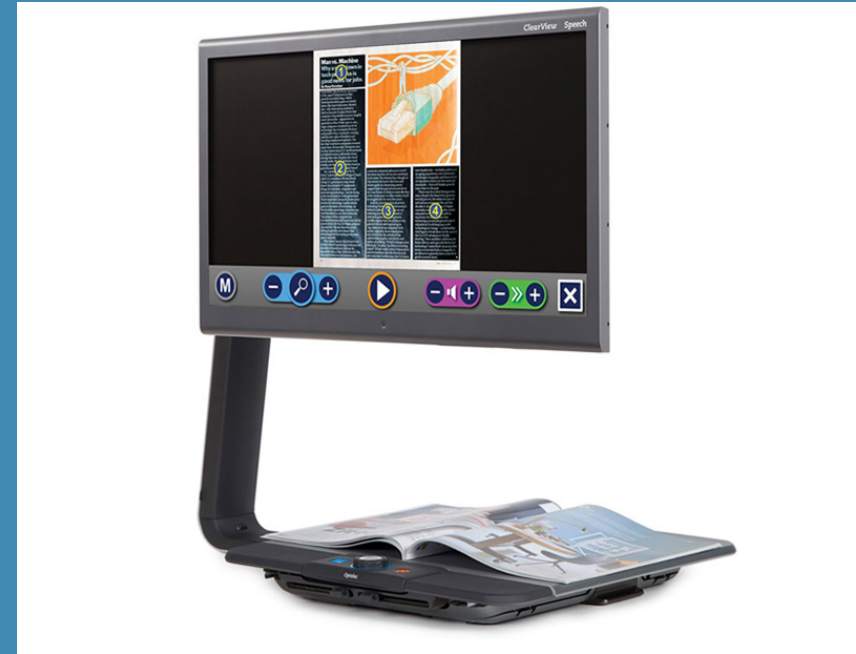
### FREEDOM SCIENTIFIC RUBY XL HD

- 5-inch widescreen
- 2x – 14x magnification
- Portable
- 3 hours of continuous use

### ESCHENBACH SMARTLUX HD

- 5-inch widescreen
- 5x – 12x magnification
- Portable
- 2.5 hours of continuous use

# VISION



## VISION

### BAUM VISIOBOOK

- 12-inch widescreen display
- 1.8x – 30x magnification
- 5 reversible color combinations
- Compact and portable
- 5+ hours operating time

### OPTELEC CLEARVIEW C W/SPEECH

- 24-inch HD display
- 1.5x – 75x magnification
- 16 high contrast color combinations
- Fast text recognition (OCR)
- Over 60 reading voices in 30 languages

# VISION



## VISION

### FREEDOM SCIENTIFIC: JOB ACCESS WITH SPEECH (JAWS)

- Powerful screen reader
- Provides speech and Braille output

### AI SQUARED: ZOOMTEXT

- Fully integrated magnification and screen reading program
- xFont magnification
- Customizable enhancements i.e. pointers or cursors

HEARING

# HEARING





## HEARING

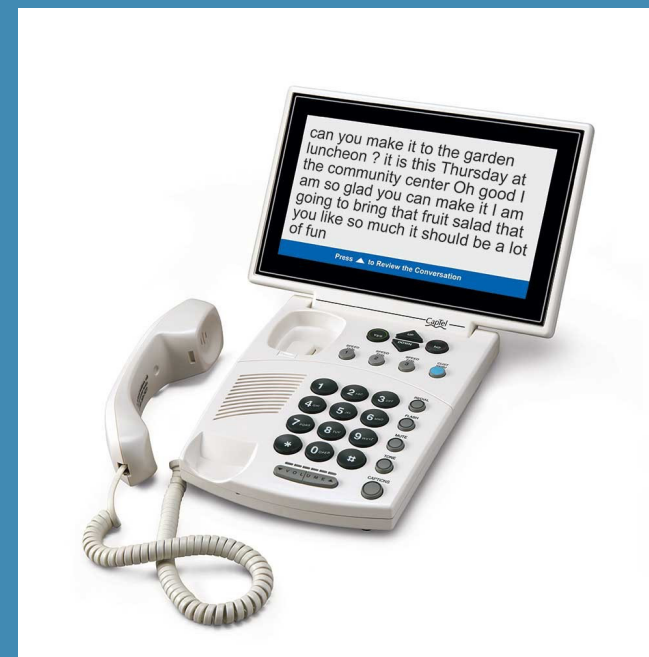
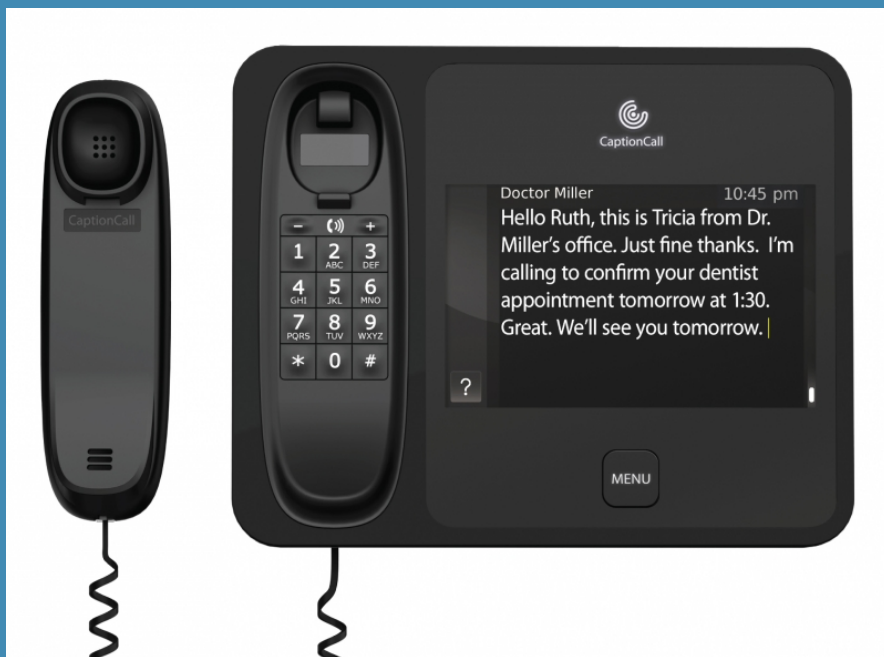
### WILLIAMS SOUND POCKETALKER

- Personal amplifier
- Reduces background noise
- Ideal for one-on-one conversations
- ADD/ADHD

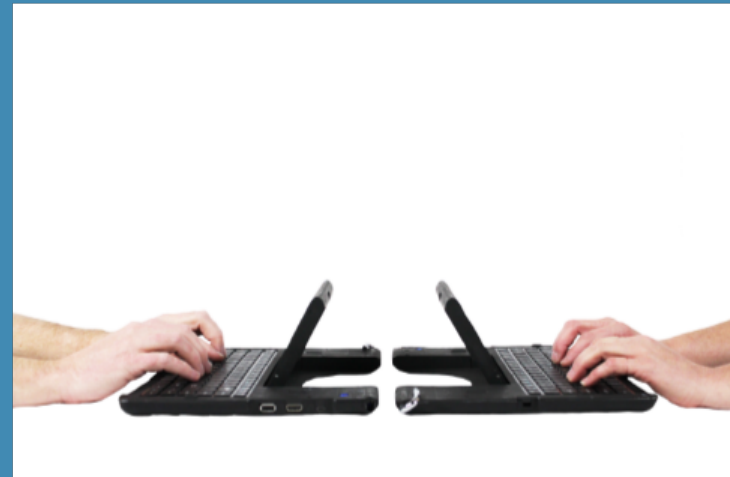
### PERSONAL FM SYSTEM (PFM PRO RCH)

- Transmitter and receiver
- Enhances sounds wherever background noise or distance from source makes listening difficult
- Range of up to ~150 feet

# HEARING



# HEARING



# HEARING

## UBIDUO 2

- Face-to-face communication
- Colored, touchscreen
- Light and portable
- Range up to ~300ft



LEARNING

# LEARNING

## LIVESCRIBE ECHO SMARTPEN



- Record audio while taking notes
- Dyslexia & Dysgraphia
- Transfer notes via USB
- Send/share notes

# LEARNING



## LEARNING

### READ & WRITE

- Learning, literacy software
- Intuitive toolbar design
- Provides supports for reading, writing and studying

### GHOTIT

- Dyslexia-specific
- Context and phonetic spell checker
- Grammar and punctuation checker
- Word prediction and proofreader



# LEARNING



## LEARNING

### DRAGON NATURALLY SPEAKING

- Voice recognition and dictation software
- Dictate word documents, emails, etc.
- Complete control of computer through voice

### VOICE DREAM READER

- Dyslexia, ADD/ADHD, blindness, low vision
- Text-to-speech application
- Customize font, size, spacing, etc.
- Highlight, take notes, define, etc.

# LEARNING

## CHOICEWORKS



- Picture-based learning tool
- Complete daily routines
- Understand feelings and behavior
- Ideal for those on the autism spectrum

# AUGMENTATIVE ALTERNATIVE COMMUNICATION (AAC)

AAC



## AAC

### PROLOQUO2GO

- Symbol-based augmentative alternative communication
- Provides language development
- Grows communication skills

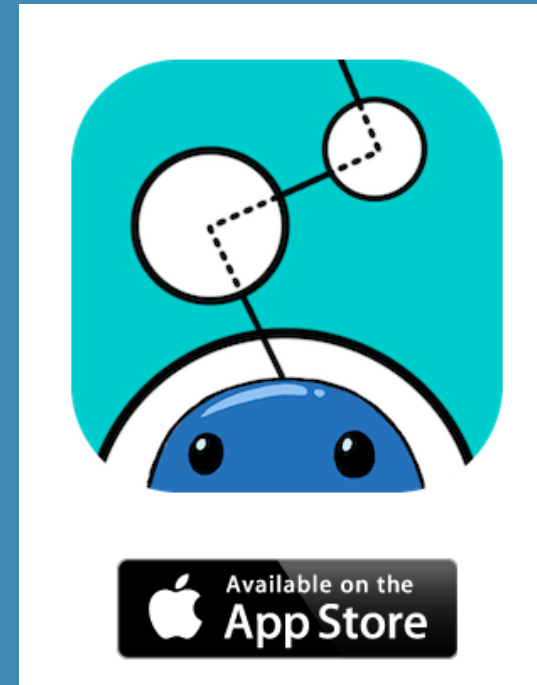
### PROLOQUO4TEXT

- Text-based augmentative alternative communication

# AAC

## AACORN

- Designed especially for children who are non-verbal and speech delayed
- More accessible to those who cannot type or find grid-based AAC frustrating
- Unique word tree design



# ENVIRONMENTAL CONTROL



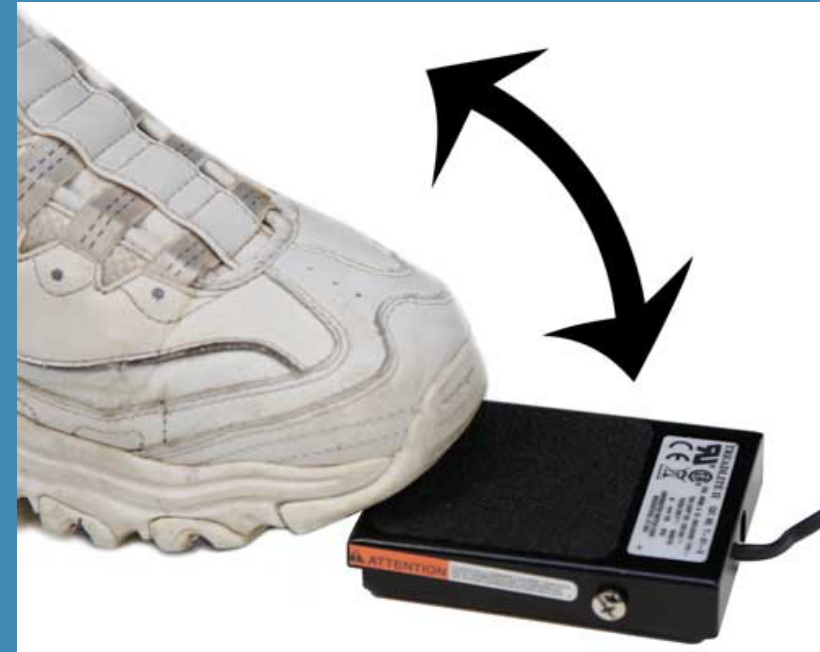
# ENVIRONMENTAL CONTROL



# ENVIRONMENTAL CONTROL



# ENVIRONMENTAL CONTROL



# ENVIRONMENTAL CONTROL



## TOBII DYNVOX I-SERIES

- Speech-generating device (also AAC)
- Gaze interaction (eye gaze) and touch screen
- Cerebral Palsy, Rett Syndrome, ALS and Stroke/Aphasia

QUESTIONS?

# ASSISTIVE TECHNOLOGY RESOURCE CENTERS OF HAWAII (ATRC)



- Designated state resource center for AT
- 501(c)(3) non-profit organization
- Demonstrations, device loans and trials, financial assistance, etc.
- **Table #**

**MAHALO!**

Enjoy the rest of the conference!