

Mount'n Mover Mounting Systems





Mary Kay Walch
COTA, Director of Sales and Marketing
BlueSky Designs
Minneapolis, MN



As the use of mobile technology grows - so does the need for mounting

Mainstream technology - more affordable

Apps

Communication options expanded: texting, instant messaging, e-mail, and social media

Multiple devices: phone, laptop, tablet, iPad

AT keeps evolving!

Essential Life Skill to interact with the world

Connect with support groups, social media, build relationships, stay productive and safe

Vocational, academics and recreational

Independence -minimize individual's dependency on others

Improve quality of life



Optimizing Device Positioning

“Optimal” varies (consider the whole picture)

- From person to person
- Their needs and specific considerations
- Impacts access, mobility, health, independence

Holistic approach

- Accommodate different devices and activities
- Multiple devices (concurrent access)
- Different operating positions
- Across environments (bed, w/c, table, work)

Types of Mounts

Simple: Basic support, static

Added Features: Movable, locking

High Tech: Powered

Movable Mounts



NEW!



Unique mechanisms allow users to independently manipulate the attached device with great ease and flexibility.

Static vs. Movable

Static Mount

- Impede transfers
- Obstructs vision
- Single operating position
- Most can not be moved independently

Movable Mount Consider if you want...

- Move independently
- Set multiple lock positions, changes with ability
- Safety - visual or physical access, reduce tipping hazard
- Use multiple devices



NEW! Simple Mounts



Quick Connect

Speech devices,
Compatible with
other mounts



Small Tray 3.75" x 7"

Phones, remotes, small devices



Large Tray 11.4" x 9"

Medium devices, eating,
writing and reading

New Simple Mounts Quick Connect

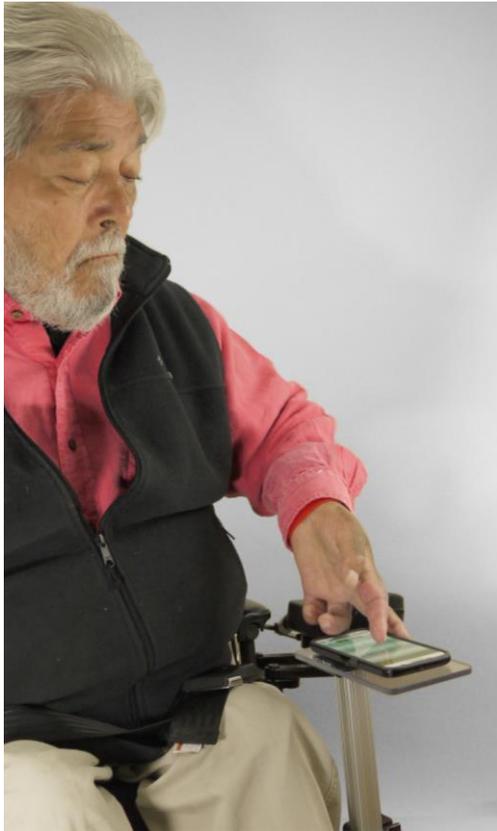


Quick Connect Plate

All Swivel



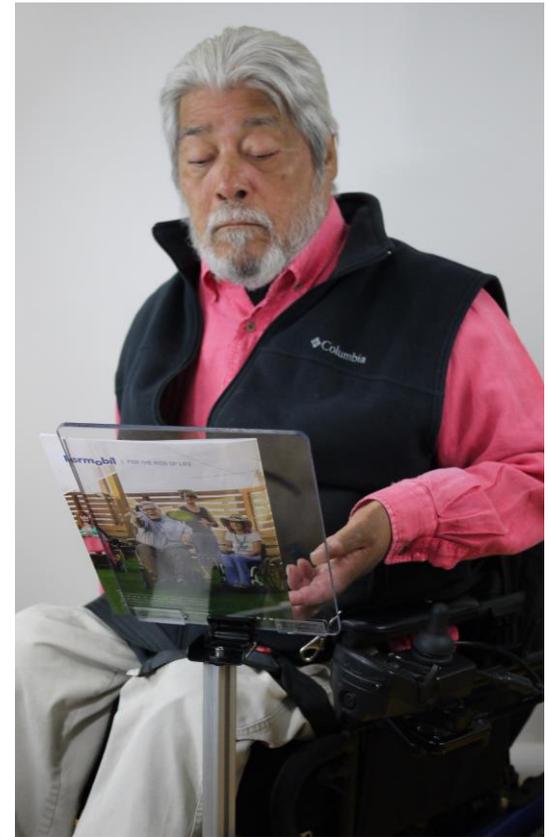
Lay Horizontal



Large tray has off-set
option to adjust depth



Vertical Tilt



Folds Down flat for Storage (trays)



Customizable Support Edges for Trays



Bottom placement



Bottom and side placement

Corner placement



Attach 2 edges to make channel



Double Decker



COMBINE WITH A DUAL OR SINGLE ARM

Dual Posts - Simple Mount and Dual Arm



- Dual Arm with Laptop Tray
- Simple Mount with Large Tray for mouse and arm rest

Mount'n Mover Options



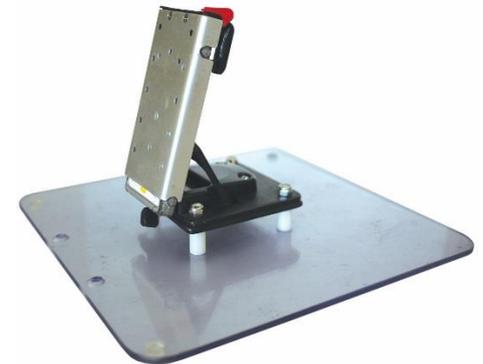
Dual Arm



Single Arm



**Tilt'n
Turner**

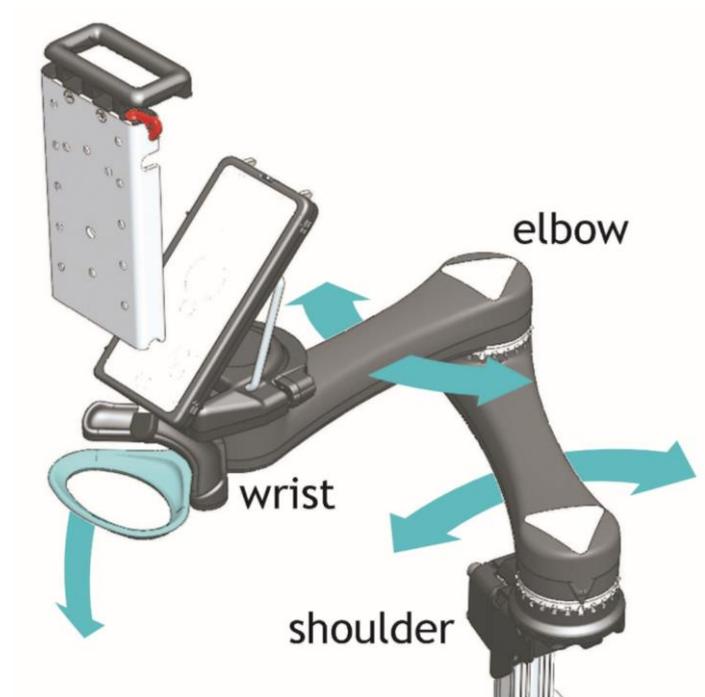


Mount'n Tilter

Now black! Silver original.

Moving The Arm

1. **Press hoop.** Unlocks both shoulder and elbow.
2. **Move** both arms at once. Use hoop to steer.
3. **Let up** on the hoop. Continue moving arms to find a memory lock position.



Rotate The Wrist

1. Press **PADDLE** to unlock wrist. Wrist is momentarily unlocked at that position.
2. **Move it!** Wrist will remain unlocked until it finds memory lock position.

One-handed operation!



Adjust The Tilt

1. **Unlock:** move tilt lever to the right.
2. **Adjust tilt angle:** push down or pull up on the device.
3. **Lock:** move tilt lever to the left.

High or Low resistance hinge available.

High resistance hinge recommended for large devices 5 pounds or heavier.



Slight forward tilt for eye gaze access

Customize Lock Positions



To set one or more lock positions, push lock setter(s) down.
Up to unlock*.

**Setters can only flip up when NOT locked in position*

Quick Release Plate (QRP)

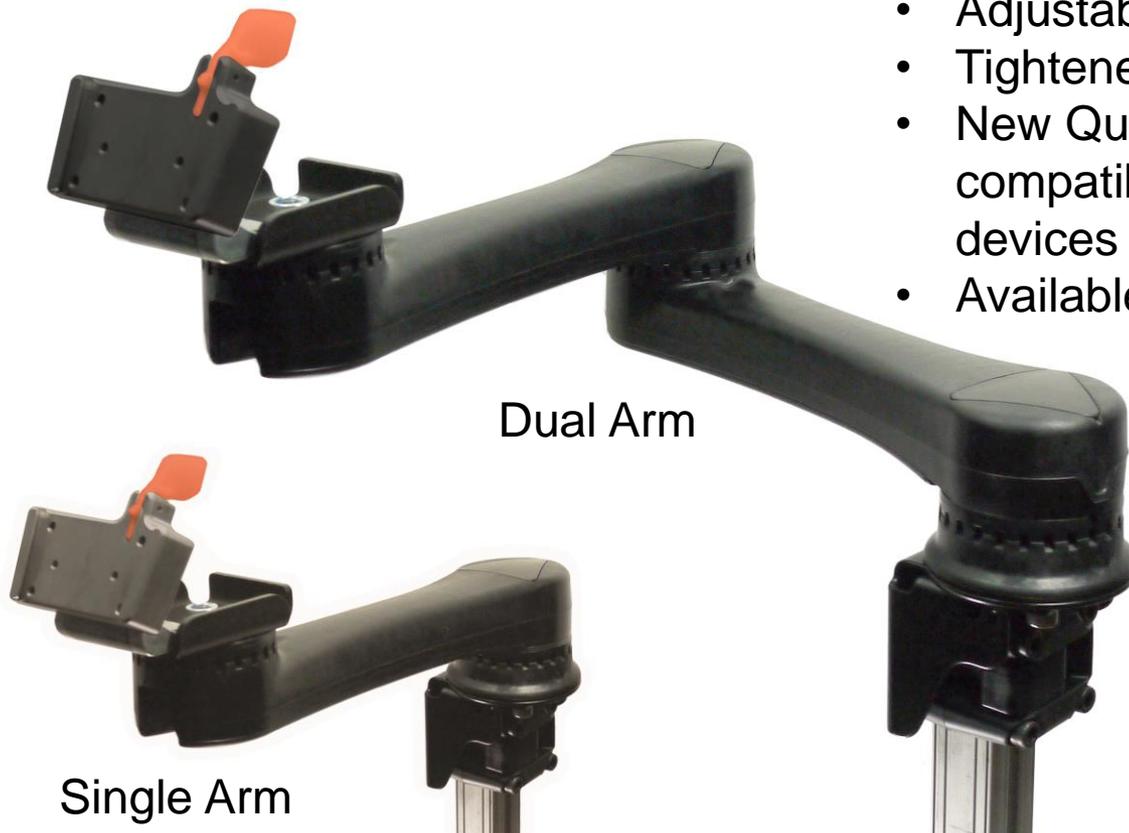


The QRP is needed to attach a device or tray to the Mount'n Mover.

The QRP makes attaching or swapping out devices a snap!

New Easy Mover

- Movable joints
- Adjustable low to high resistance
- Tightened to lock
- New Quick Connect Receiver compatible with other mounts and devices
- Available with locking tilt



Quick Connect Plate

Easy Mover

Albert

Very rough user

Formerly used lock version

Easy Mover with Tilt plate,
DynaVox Maestro, now I-110

Easy Mover stiff enough to stay
in place, but he can still get it
out of the way himself

High resistance hinge keeps
from moving



Where to Mount

Wheelchair



Standers

Strollers



Where to Mount



Wall



Floor Stand



Bed



Walkers

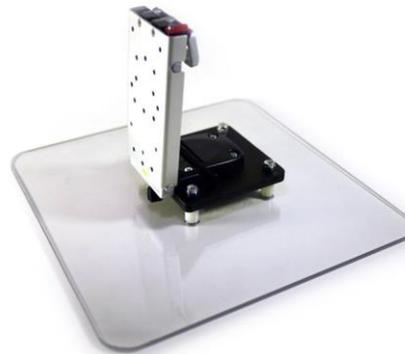
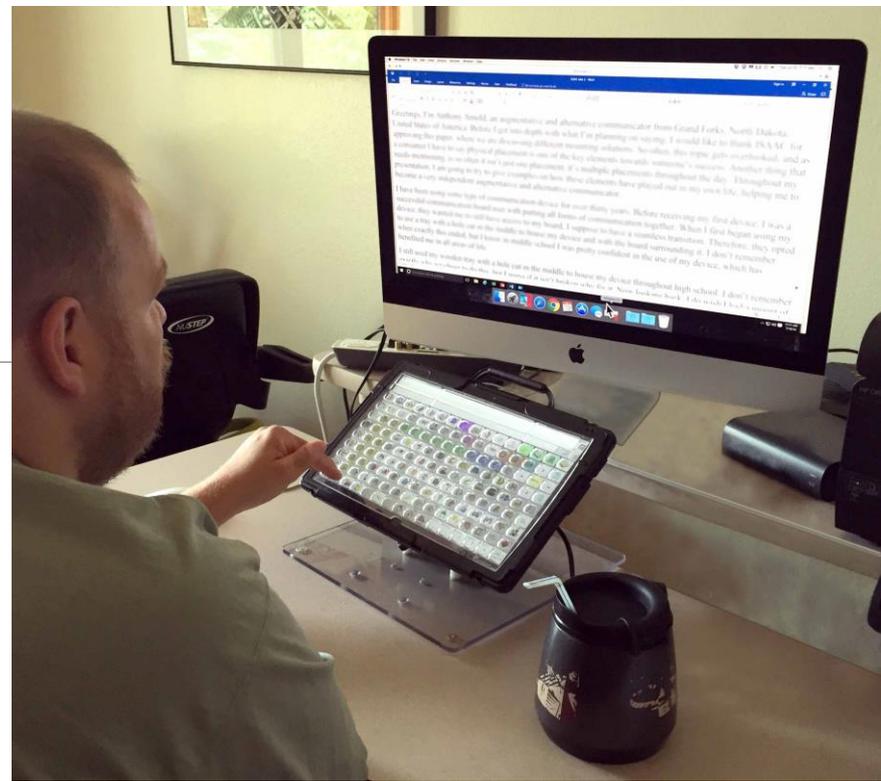


Table

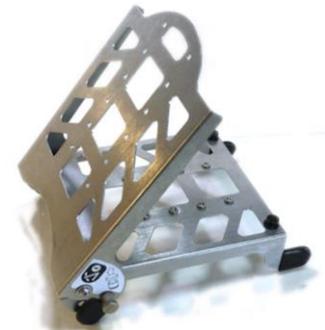
Table Mounts



Table Clamp

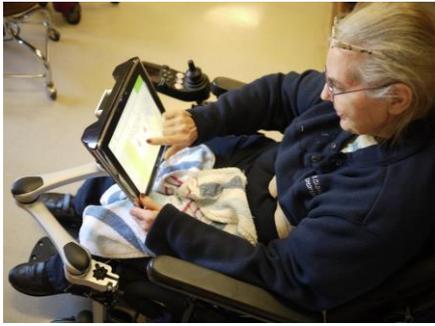


Mount'n Tilter



Stand +90

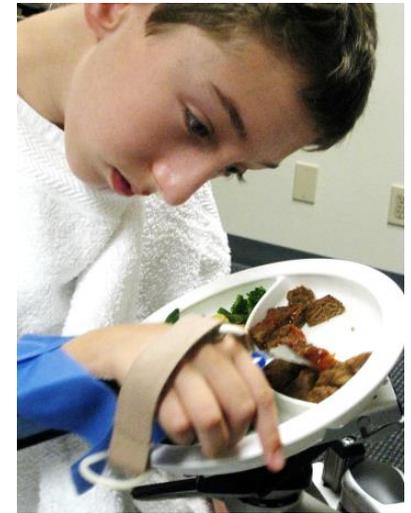
What to Mount



Communication Devices



Technology



Other



Trays



Camera

Access ALL Day = Increased Communication



School added mounts for AAC to:

- Gait Trainers
- Adapted classroom chairs
- High/low standers
- Beds and more!

Noticed constant access to devices led to increase in communication

***“No more sabotaged
“speech sessions” and
set up time significantly
decreased”***

~Julie OT

One Mount - Many Uses

Wheelchair, bed, walker, stander, table and floor stand!



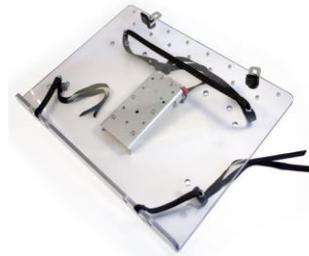
Device & Tray Attachment Options



iTab Tray



12" x 12" Tray



Laptop Tray



Tray with Lip



Stand +90



Universal Rotator



Camera



Quick Connect Receiver & Plate



Phone



Tablet & Keyboard

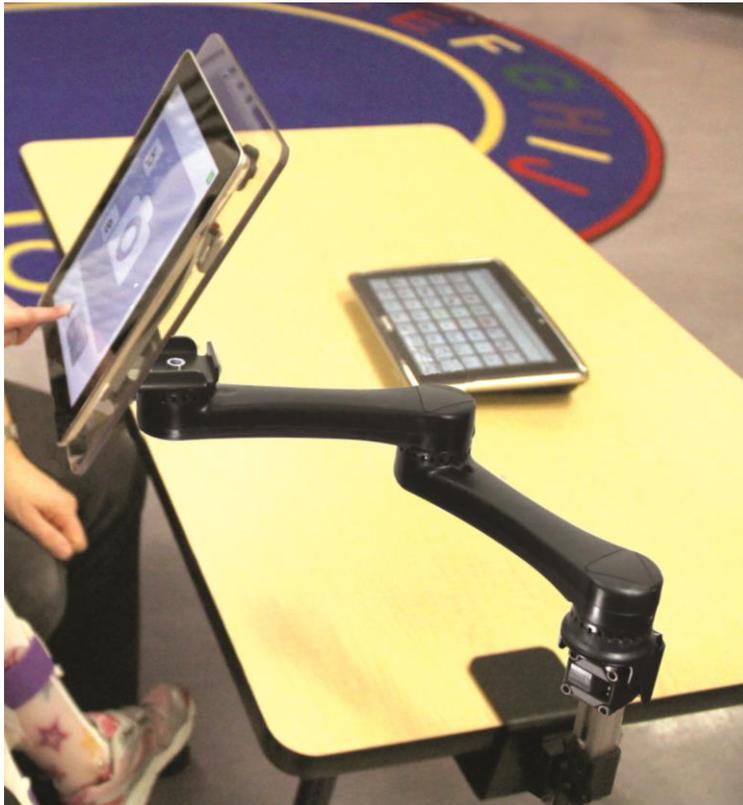


Device Plates

Custom Trays Available



Universal Access Station Kit



- Clinic, library
- Therapy room
- Evaluations Centers

Do more - with a mount that moves!



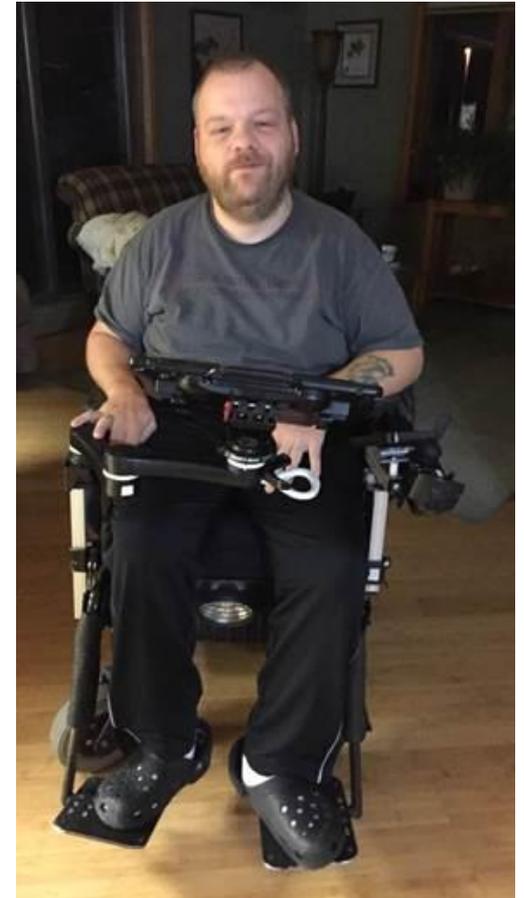
Can the Mount be used Independently by the User?

Reduces dependency on caregivers

Increased independence in performing functional skills like eating, writing and communicating

Provides access to device in case of an emergency

FREEDOM!



Independence Communication

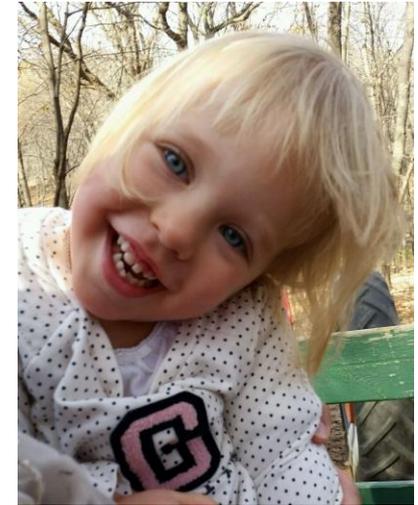


“I like the new mount because I can eat and talk at the same time.”

~Bob

Can access device from two positions!

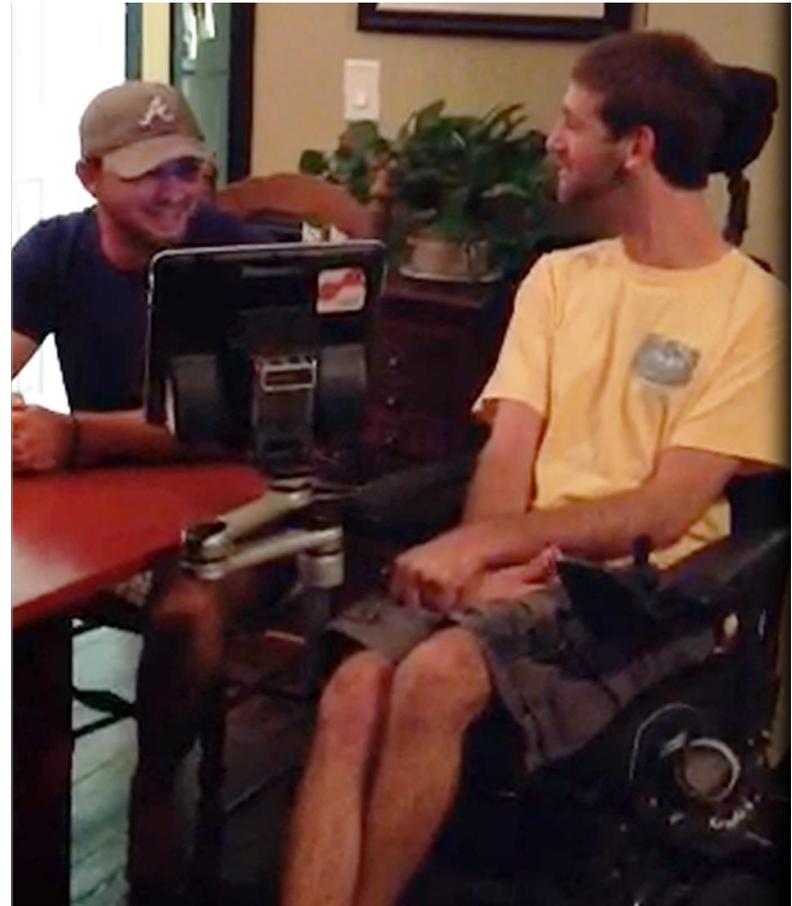
Independence Communication



Greta places her order at the restaurant independently

Private Communication

Ryan programs his communication device, turns the screen to his friend to read his message for a private conversation

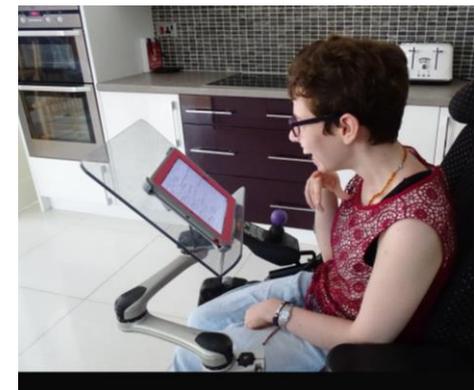


Does the Mount Allow for a Variety of Adjustments?

Does it allow for a variety of adjustments to accommodate for change in positioning, growth, fatigue, or environment?



Adjustable Grows with Client



Tools for life!

Mount Tilts With Chair



Move For Visual Access

Rotates for
visual access
when driving!



Access
device
when
standing!



Anthony



PRC Tech Support, uses ECO2, Accent 1200, Accent 1400, iPad

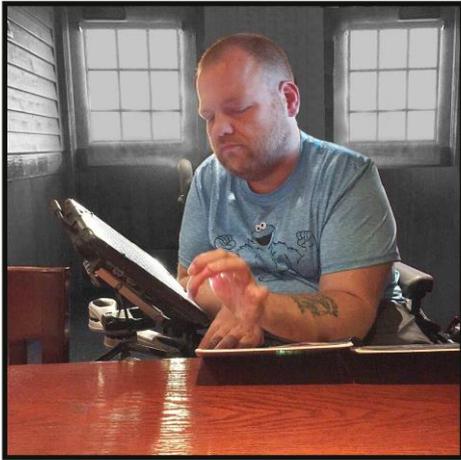
Wanted something he could easily navigate independently

Provided great flexibility, independence and even confidence

Mount'n Tilter on desk for generating emails, word documents, work stuff



Anthony



Moves to the side to pull up to the table, read menu, transfer, use restroom



Fine motor improved since using iPhone



Protects device when working out at the gym and allows him to communicate with personal Trainer

Therapeutic Benefits Improve Posture

Jack used to rest his laptop on his lap to type. Flexed neck created neck pain.

Neck pain reduced immensely after just one week with elevated.

BEL13VE in Miracles
Foundation



Therapeutic Benefits Improve Posture



Positioning iPad
at eye level
improved posture

Operating Positions



Ergonomics

Varies per person's needs

Access to iPad

Mount is below seat level

Stabilizes arm on leg

Angled for access (Vis/Phys)

Access to computer table

Needs to move it to the side

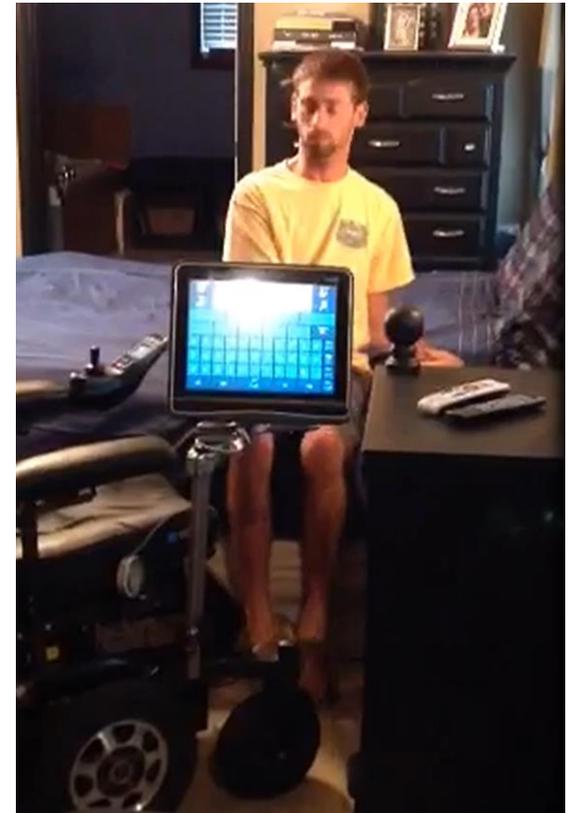
Elevates herself to work on her
computer

Unique Operating Position



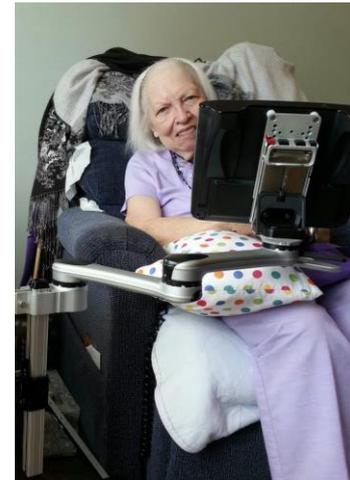
iPad mounted at seat level provided ability to stabilize arm for direct select access

Transfer from Chair to Bed



Access Beyond the Chair

Swing mount around to still access device from chair or bed.
Can eliminate need for additional bed or table mount!

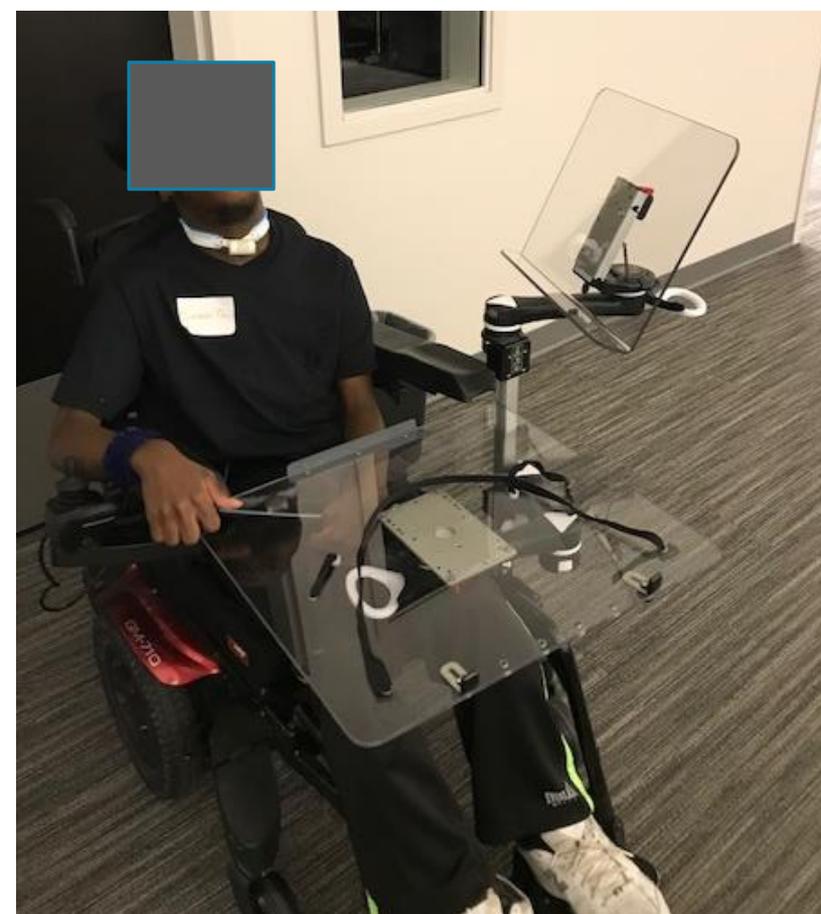


Double Decker Multipurpose

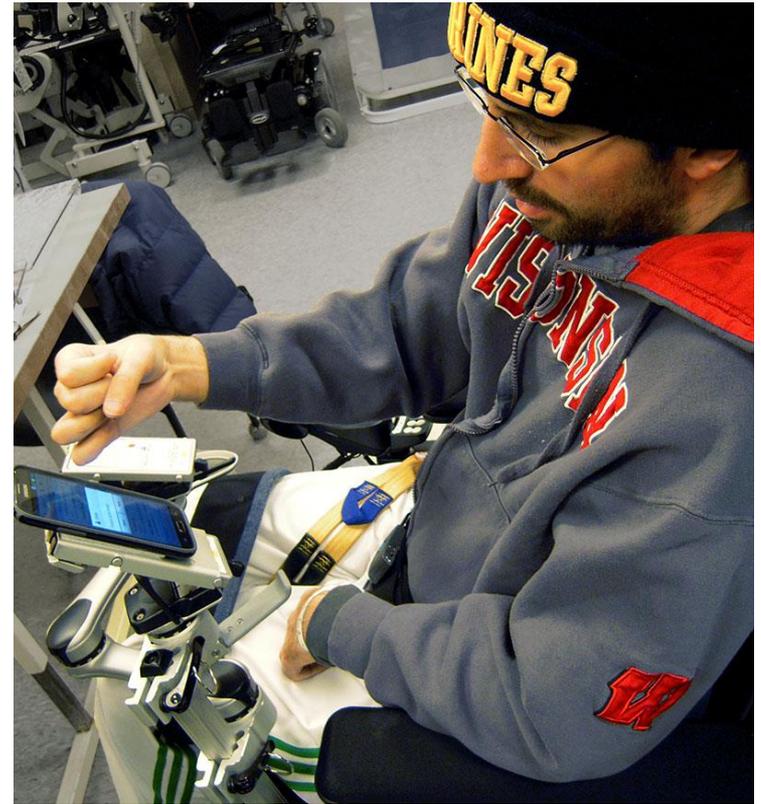
Easily swap out
devices or trays!



Double Decker Custom for Large Keyboard



Meet Ian - Phone Mount & Tray



Do They Need Multiple Operating Positions?

Can it provide multiple operating positions without the use of tools?



Operating Positions Adjustability

Attached to power chair
Allows camera to get close to eye
Rotation and tilt



Rosie





“Overcoming obstacles is the stuff of being a disabled person, and so when the mountain seems ever harder to climb, we look at ways of moving the mountain a little closer which, for most of us, means we can look at ways of making life easier in all kinds of different ways”.

“One of the things the Mount’n Mover does is give you back some of the spontaneity that life as a disabled person doesn’t always allow. With the Mount’n Mover the emphasis is very much on the product meeting the needs of the consumer”.

Rosie Moriarty-Simmonds OBE

Consultant, Writer, Artist, Presenter, Photographer

<http://fourfingersandthirteento.es.wordpress.com/>

Copyright © 2014 by Rosaleen Moriarty-Simmonds, Photography by James Moriarty-Simmonds

Multiple Devices with Dual Posts

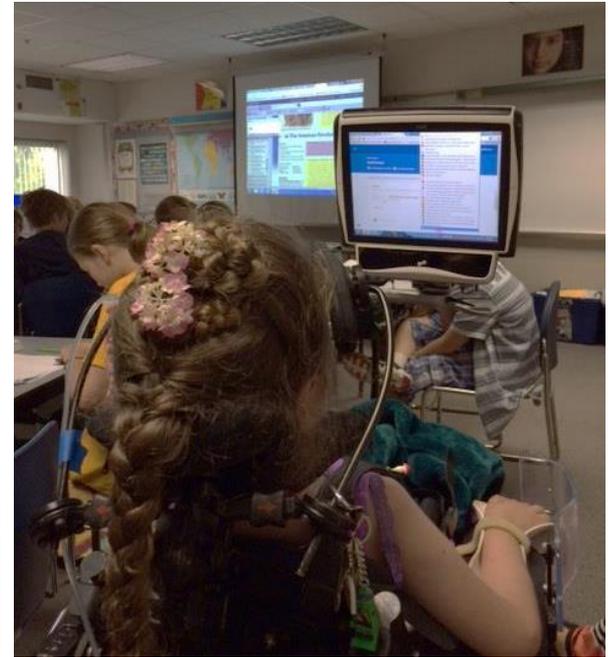
Meet Brian

Film Maker

Two cameras for film making. Allows him to film himself and his subject.

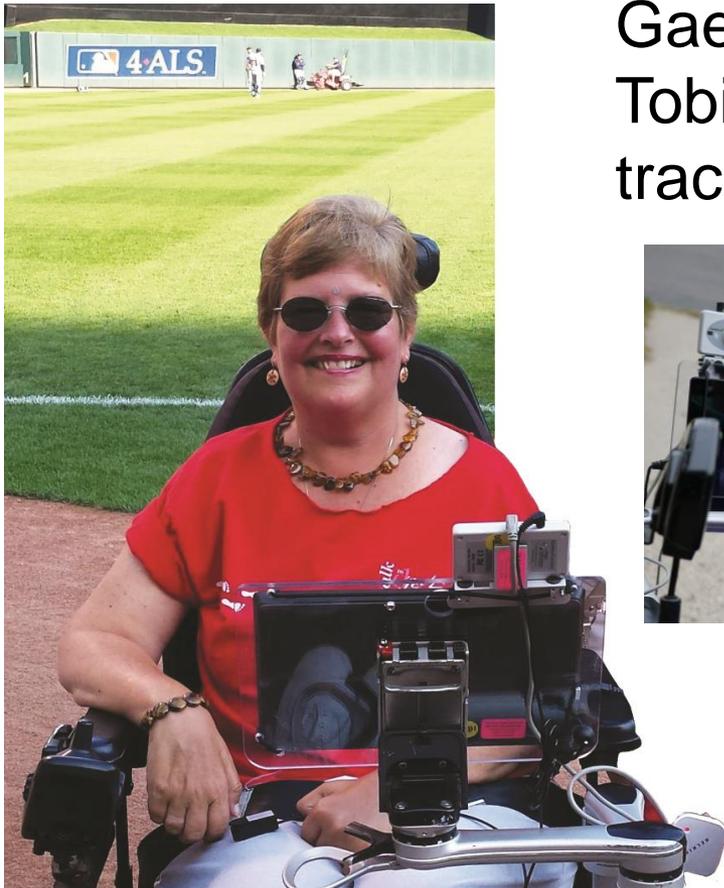


Is Access Method Eye Gaze or Head Tracker?



Head Tracker Technology

Gae uses a Surface Pro 2 Tablet with Tobii Communicate 4 software with head tracking technology



Video: Gae and her Mount'n Mover

See how Gae finds ways to preserve her independence while living with ALS

<https://www.youtube.com/watch?v=4RH5ljYnQjU>



Gaze-Based AT

Optimal Positioning Critical



- Positioning is critical
- Easy calibration
- Need consistent placement of device
- As position changes throughout the day - so must the mount
- Tilt and rotation
- Easy for caregivers - multiple locked positions
- Moves from chair to bed, table, wall or floor stand



Downward Angle for Visual Access with Eye Gaze



Stand +90



Universal Rotator



Rotates

- Communication device for head tilt and side-lying for eye gaze access
- iPads from landscape to portrait and back

Stand+90 and Universal Rotator

Sophia needed to use eye gaze for access to her communication device while in bed and in her chair

Solution: Floor Stand, Dual Arm, Stand +90 with Universal Rotator



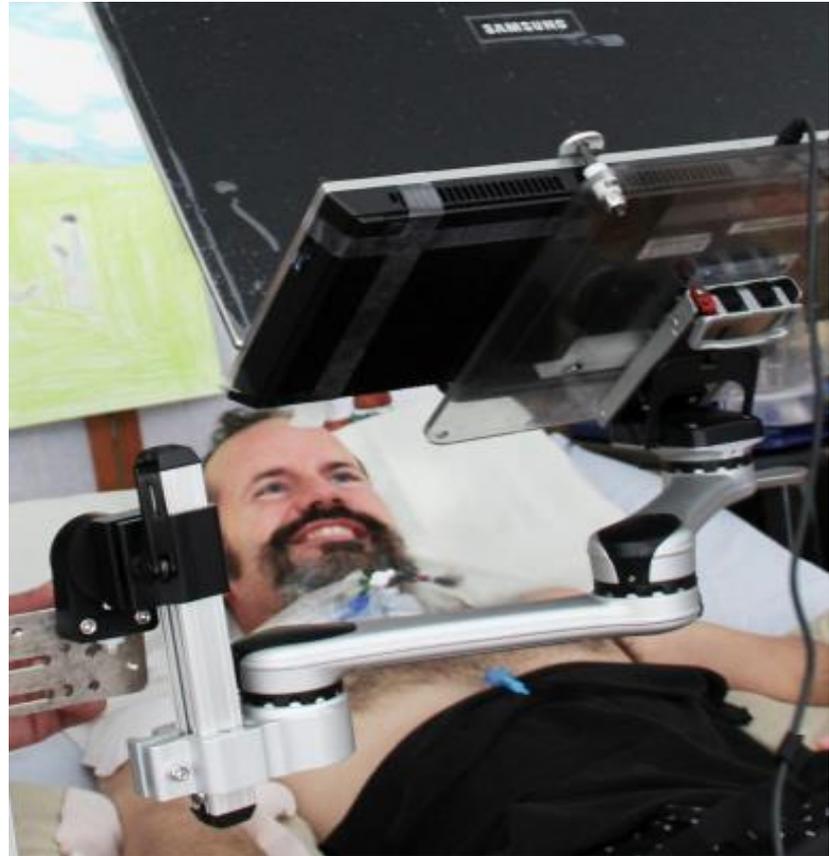
Meet David

IT guy, ALS

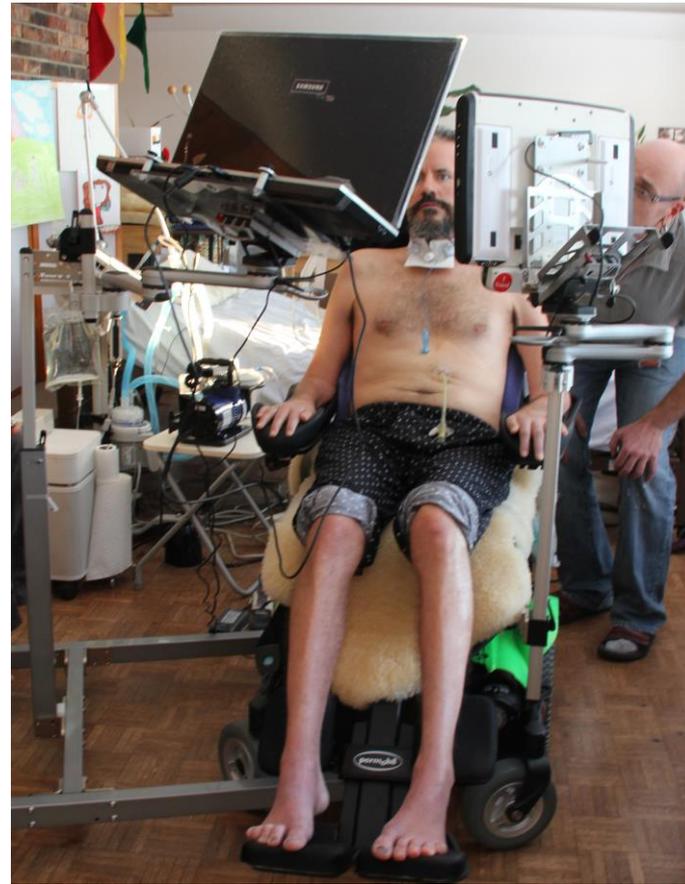
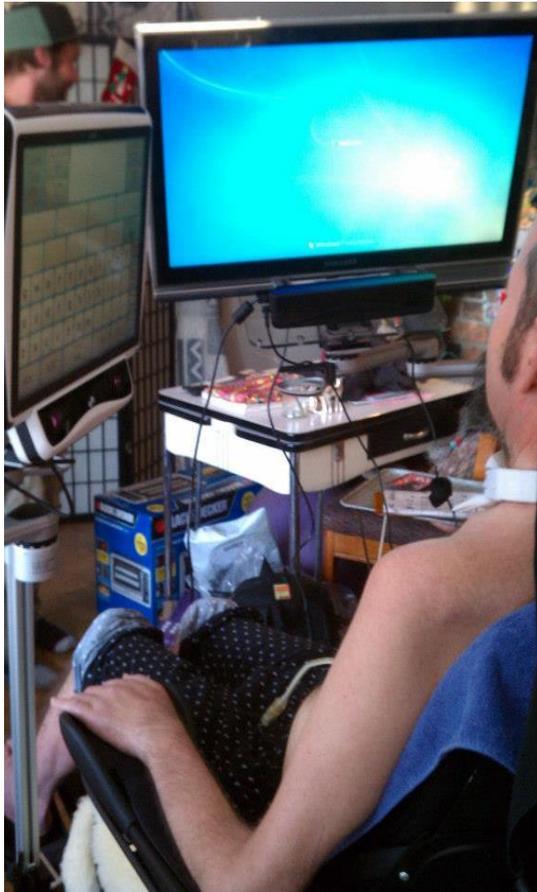
Using eye gaze for
speech & computers

Wanted to improve the
technology

Goal: DJ a New Year's
Eve Dance



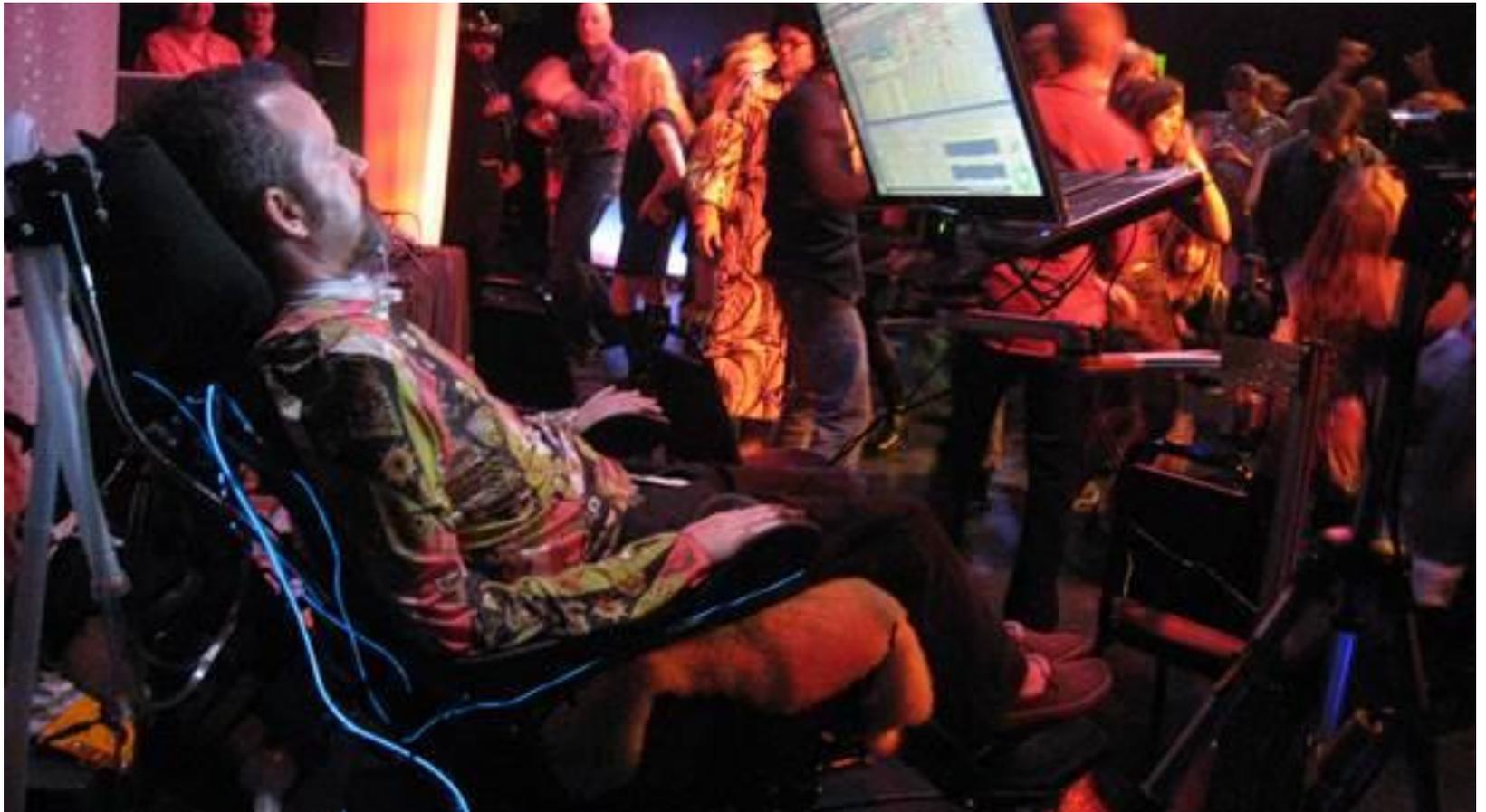
Wheelchair Access to Two Devices



Bed Access - Floor Stand



DJ David Rocks New Year's Eve



Eye Gaze Access

At the dinner table

- Mount' n Tilter

At school tables

- Table clamp
- Mount' n Tilter

On the floor

- Standing
- In low position



Move from Chair to Bed





Video: Sophia and Her Mount'n Mover



https://www.youtube.com/watch?v=AGJK80_8jvM&feature=youtu.be

Esther

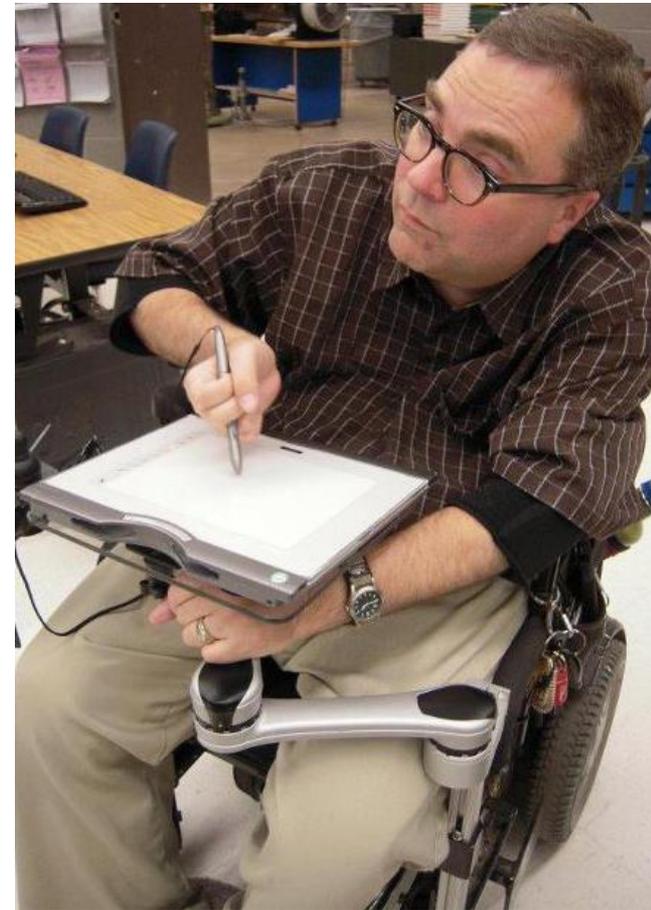


- Lawyer, advocate
- Opposed to Communication Devices - didn't want to be confined with static mount
- Now can move, take on and off, go everywhere with it



It's amazing how much impact a device can have on one's independence and Empowerment"

Ken



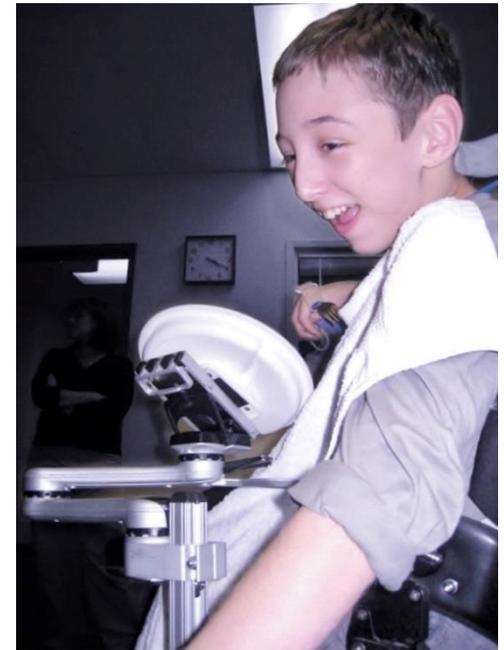
Functional Needs Music Class

Trumpet is mounted to support weight and raise into position

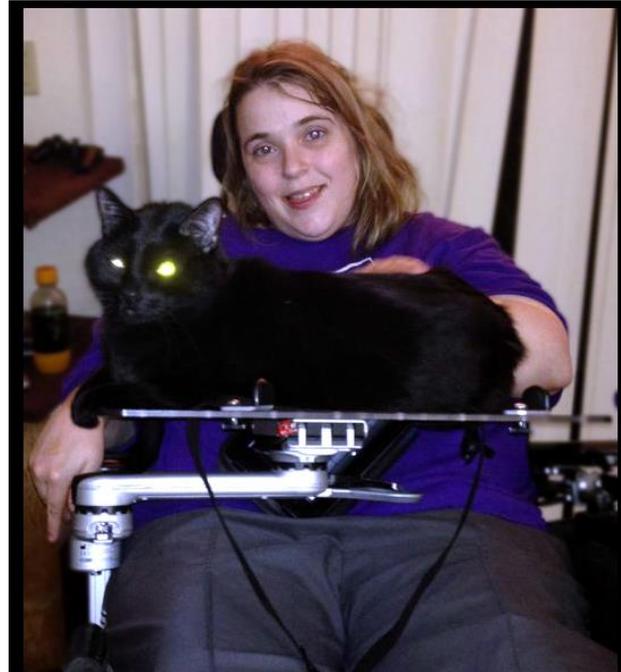


Functional Needs Eating

With optimal positioning of his plate, Jordan can feed himself for the first time!



Functional Needs Think Outside the Box!



Adapted Gait Trainer at Transitional Center

Attached mop
to Gait Trainer
using mounting
bracket



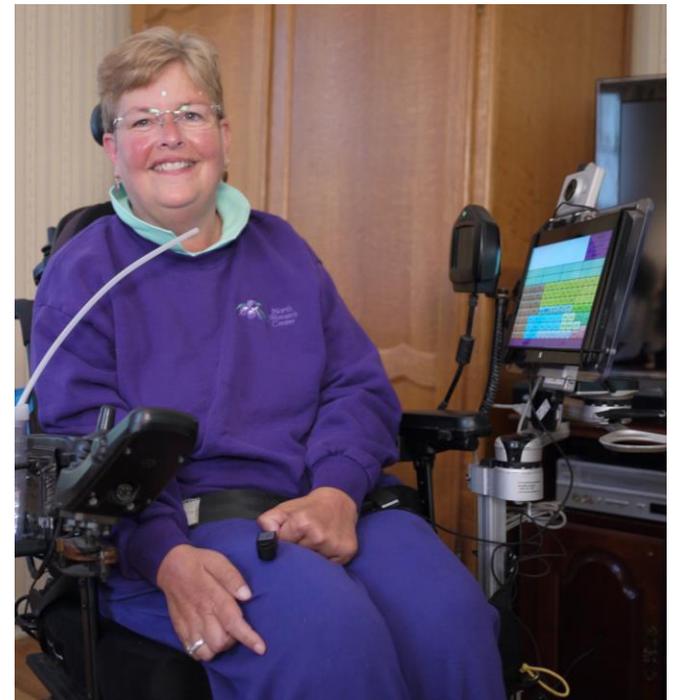
Meet Gae



ALS - Mount Changes as Abilities Change

Gae - first mount user!

- Positioning reduces fatigue
- Transfer and use the toilet
- Reboots device, adjusts for glare
- Visual access for driving, TV
- Access to tables and sink
- Moves to exercise her legs
- Moves to side for photos
- Candidate for Pow!r Mount



Single Joint Pow!r

- Tilt device – prevent glare, drive
- Move to the side to transfer
- Move close for visual or physical access
- Increase independence



New Pow!r Mount Shoulder Hybrid System

Mount'n Mover with Pow!r Shoulder

Single or Dual switch control

Three modes of control:

- Alternate directions with one switch
- One switch for each direction
- Go to customizable target positions with one switch



New Pow!r Mount Tilt Hybrid System

Mount'n Mover with Pow!r Tilt

Single or Dual switch control

Three modes of control:

- Alternate directions with one switch
- One switch for each direction
- Go to customizable target positions with one switch



Direct, Single or Dual Switch Access



End Cap: access, switches, power, and control

Built-in keypad

No app required for Single joints/Hybrids

Switches plug into End Cap

Switch 1: Toggles direction

Switch 2: Goes to 2 Target positions

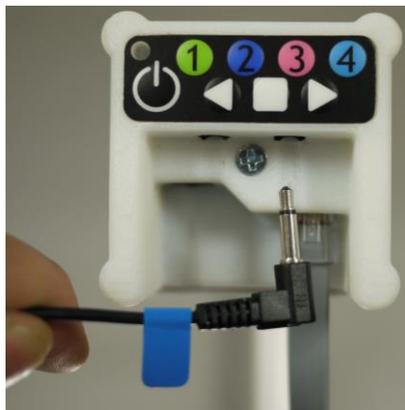
Two switches: Directional

Power options

Built-in 12v lead acid battery

Wheelchair battery

AC-DC converter/power supply



Case Study: Scott

Mayo clinicians and BlueSky Designs

Overview

- Tetraparesis due to SMA
- Lives alone in the community
- Enjoys playing games, watching movies and socializing with friends on the computer
- Need for power mount:
 - Create opportunity to self suction oral secretions while home alone



Scott's Computer Workstation



Challenges

Limited care time - set up at desk in power wheelchair

Decrease risk for aspiration pneumonia, choking and respiratory infections

Thumb and Index finger flexion, extension, minimal pronation/supination on right hand, slight pronation on left hand

Using voice increased saliva, gurgle sound

Solution: Independent Suctioning via a Hybrid Mount with Power Shoulder

Power shoulder joint

Brings yankauer into position with thumb and MicroLite switch

Actuates suction with index finger and 2nd switch

Attaches tube to plate with PVC angle and clips



Final Setup



Kensington Expert Trackball
MicroLite Switches (2)
PowerLink 2
Hybrid Mount with Power Shoulder
Yankauer

Scott: Case Study Outcomes

Quantitative

- Decrease in frequency of respiratory illness

Qualitative

- Patient-Specific Functional Scale
 - Score increased from 0 to 10 with self suctioning independence
- Decreased anxiety
 - “I would limit what I would do because I had a feeling of drowning”
- Increased engagement with friends
 - “I actually talk to people a lot on the computer and now I can talk the whole time...my voice doesn't get gurgly”

Future Developments

Pow!r Mount Multiple Joints

Control options:

- Switches
- Touch display
- Accessible app
 - Easy and efficient (target positions)
 - Independence (adjust individual joints)
 - Customizable (change devices, controls, preferences, different configurations)
 - Android and iOS
 - Touch with finger or stylus tip
 - Switches: Timed scan or Step scan



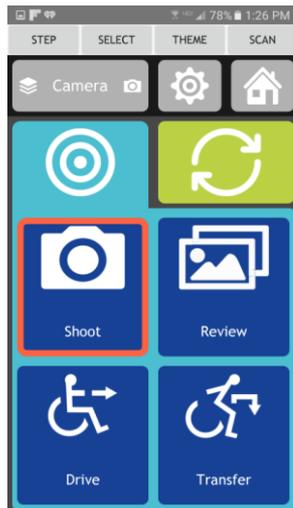
Pow!r Mount App's Main Screens

Targets—to quickly move to favorite positions

Adjust—to make adjustments to individual joints

Groups—Sets of targets for devices or environments

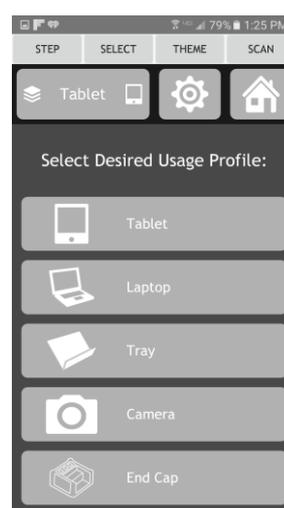
TARGETS



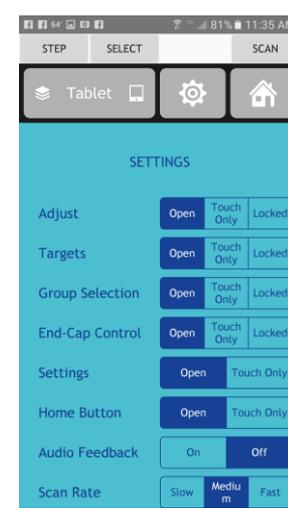
ADJUST



GROUPS



SETTINGS

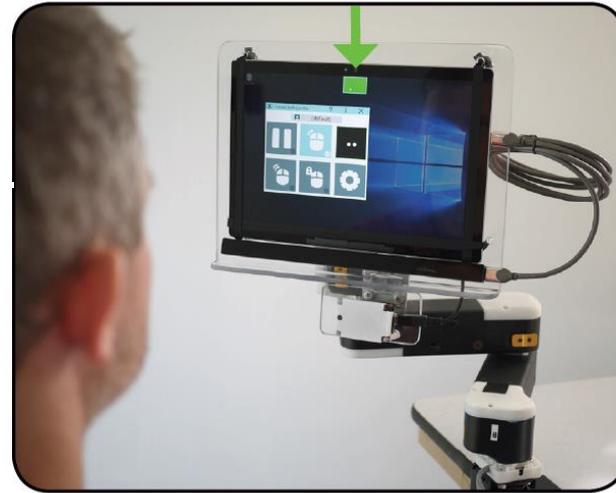


Future Developments Auto Repositioning

A mount that Auto-Repositions a speech device!



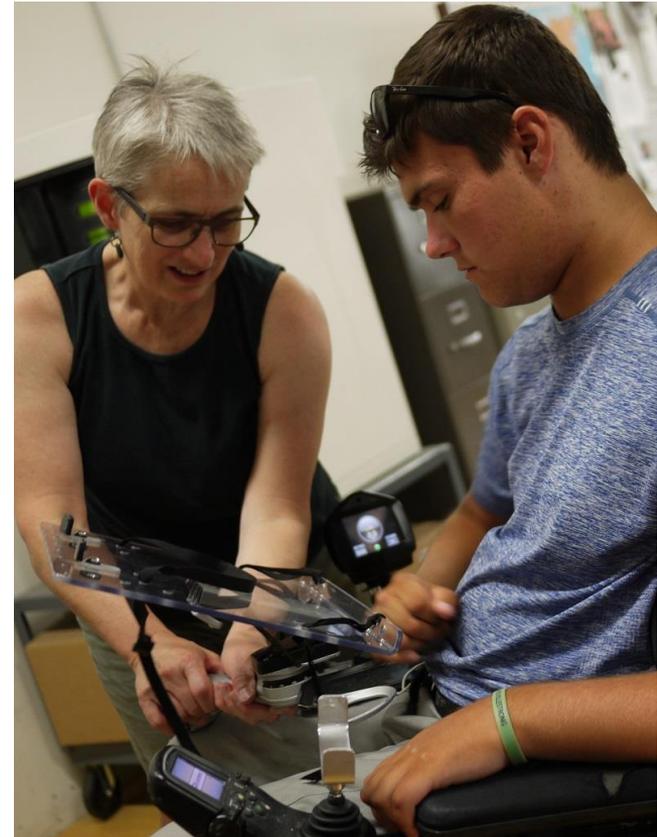
Out of position
(not calibrated)



Pow!r Mount repositions
(calibrated)

Assessment Questions

- Does it allow for daily adjustments for change in positioning, growth, fatigue, environment?
- Can the mount be used independently by the user?
- Does the mount allow access to a variety of items?
- Can it provide multiple operating positions without the use of tools?



Assessment Questions Continued

- Does it enable independent access to a communication device in all situations and environments at all times?
- Can the device be moved out of the way rather than removed entirely risking damage and loss?
- Does the mount provide consistent positioning for specific locations?
- Can it be moved from chair to bed thus eliminating the need for 2 mounts?
- Does it help caregivers set up device?



Medical Justifications

Need to access from a tilted position

Improved visual access for driving

Positioning for access from more than one position (direct and eye gaze)

Able to quickly move the device

Hygiene: able to use a sink and toilet

Positioning changes, so device must change

Must adapt as abilities change (ALS, MD...)

Safety - keep chair from tipping

See: www.mountnmover.com/evaluate-buy/funding/

Letter of Necessity

- Provides independence through positioning and ease of use
- Allows for appropriate communication device position while the chair is tilted
- provides (name) continuous access to their communication device in the event of an emergency
- Decreases tipping hazard
- Improved visual access for driving/wheeling
- Customized lock positions avoids caregiver guessing and frustration
- Provides access to technology/communication 24/7 in case of emergency

Health Benefits

Optimal Positioning and Access Provides:

- Ability to exercise without restrictions
- Improved range of motion & fine motor dexterity
- Improved access to sink and toilet (hygiene)
- Improved ability to eat (up to a table or positioning of tray)
- Improved ergonomics; less pain
- Ability to change positioning based on the activity
- Better head control due to device positioning (height & tilt)
- Less fatigue

Psychosocial Benefits Of A Moveable Mount Reported

Study by Ithaca College OT Department

PIADS: How are you affected by the Mount' n Mover?

Adam Kinney, MS and Lynn Gitlow, PhD, OTR/L, ATP

"A Consumer-Centered Approach to Evaluating Assistive Technology Usability Outcomes"

June 2015 issue of American Occupational Therapy Association Special Interest Section on Technology.

Increase:

Competence

Adaptability

Self esteem

Decrease:

Frustration

Embarrassment

Confusion

Impacted more than device access, unrelated tasks were easier to perform. Tasks included: transferring, answering calls, socializing, feeding, shopping, and adaptive baseball.

Resources -Therapist Page

<https://mountnmover.com/community/therapists>

- Funding information
- Research
- Videos
- Reviews
- And more!

Videos

Mountnmover.com

Gae - ALS

Rick - Spinal Cord Injury

Sophia - SMA, Eye Gaze

Evaluation Kits



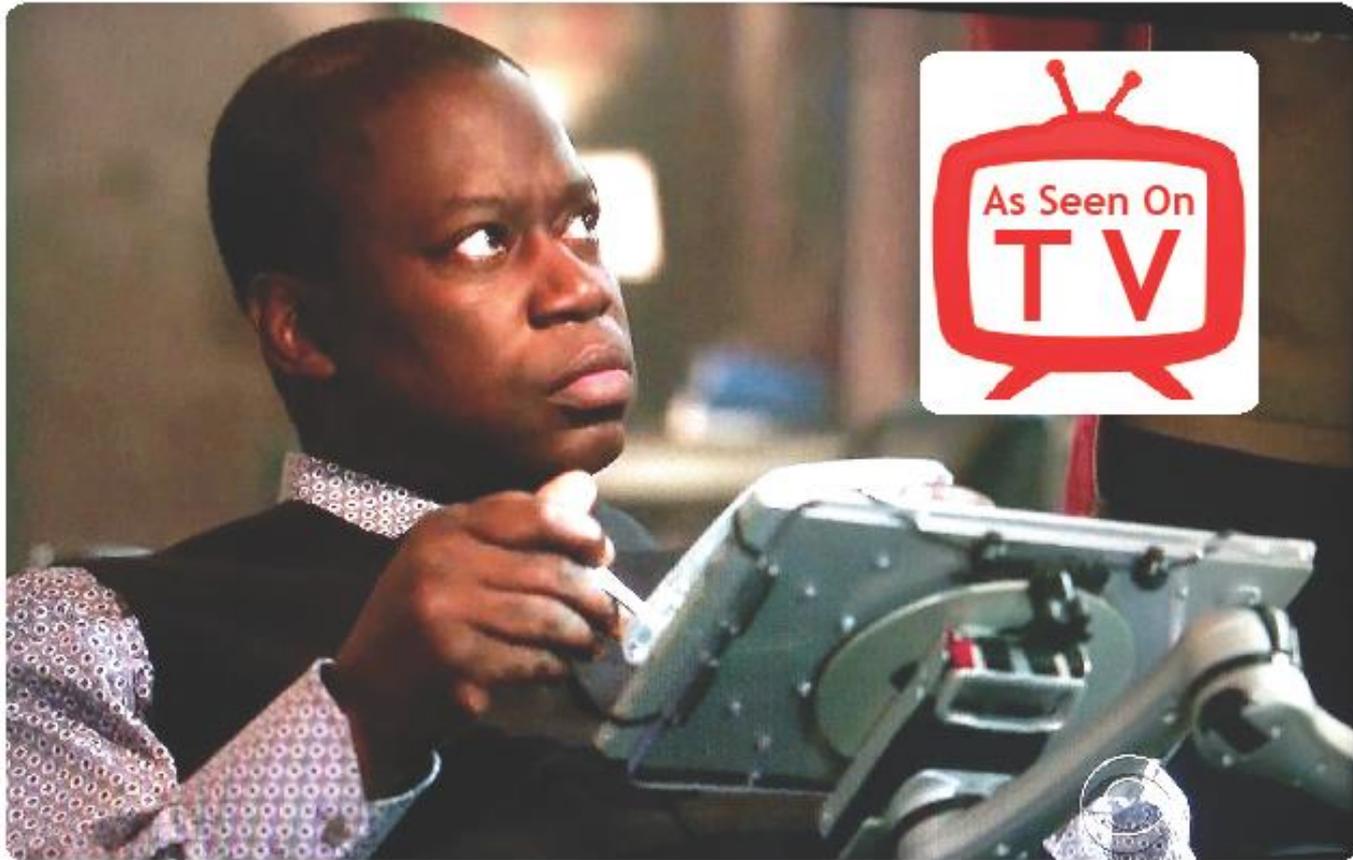
**Deluxe Eval Kit
includes Case**



Table Eval Kit

NCIS: New Orleans

Daryl Mitchell
(Patton Plame)



BlueSky Dream Team



Thank you!

Questions and Tech support BlueSky Designs:

www.mountnmover.com

info@blueskydesigns.us

1-888-724-7002, 612-724-7002

Mary Kay Walch

mkwalch@blueskydesigns.us