



What to Consider When Selecting a Mounting System

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What to Consider When Selecting a Mounting System

Learning Objectives

1. List 3 assessment questions that help identify the mounting need of a client
2. List 3 psychosocial benefits of using a movable mounting system based on research results presented
3. List 3 types of device mounting/positioning alternatives and a feature consideration for each

Types of Mounts

Simple: Basic support, static

Added Features: Movable, locking

High Tech: Powered

Movable Mounts



NEW!



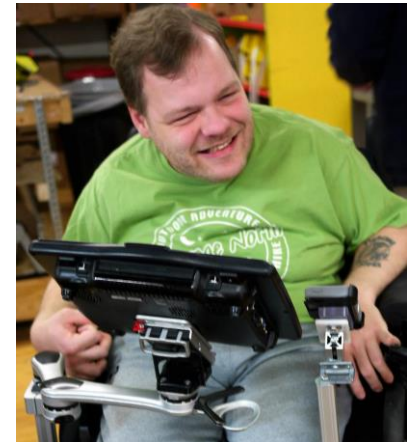
Unique mechanisms allow users to independently manipulate the attached device with great ease and flexibility.



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

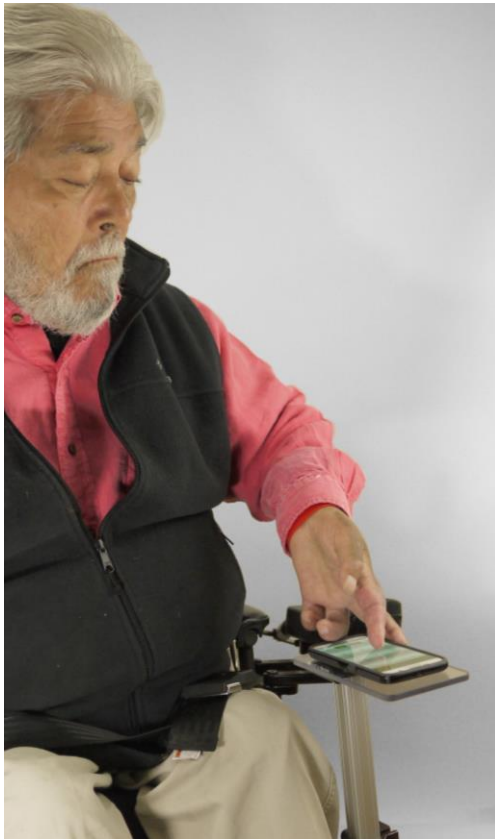


Quick Connect Plate

All Swivel



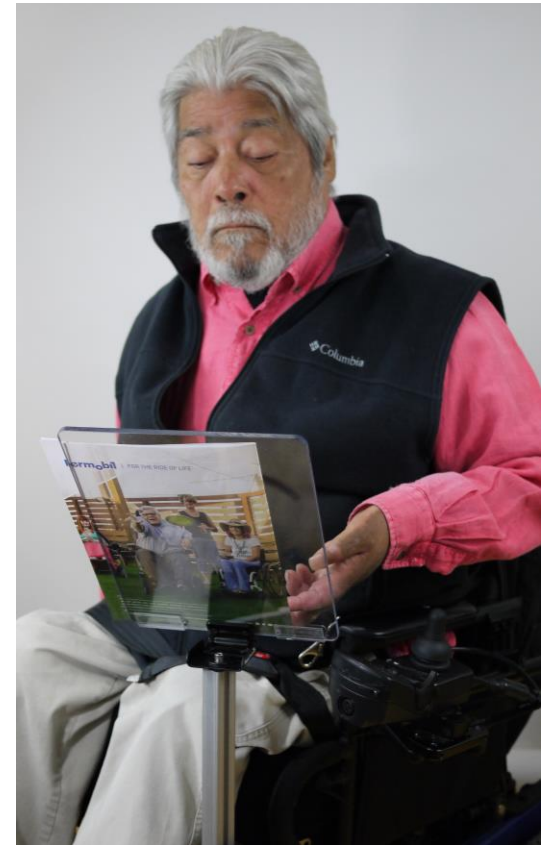
Lay Horizontal



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

Mount'n Mover Options



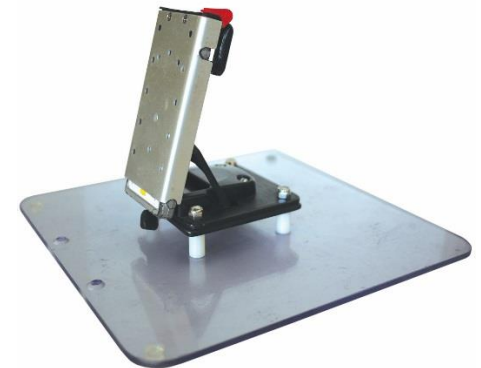
Dual Arm



Single Arm



**Tilt'n
Turner**

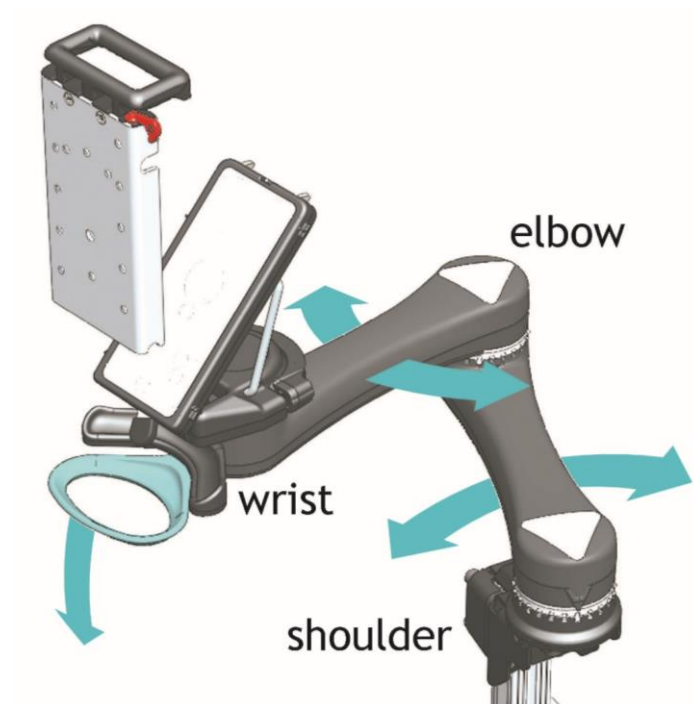


Mount'n Tilter

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)

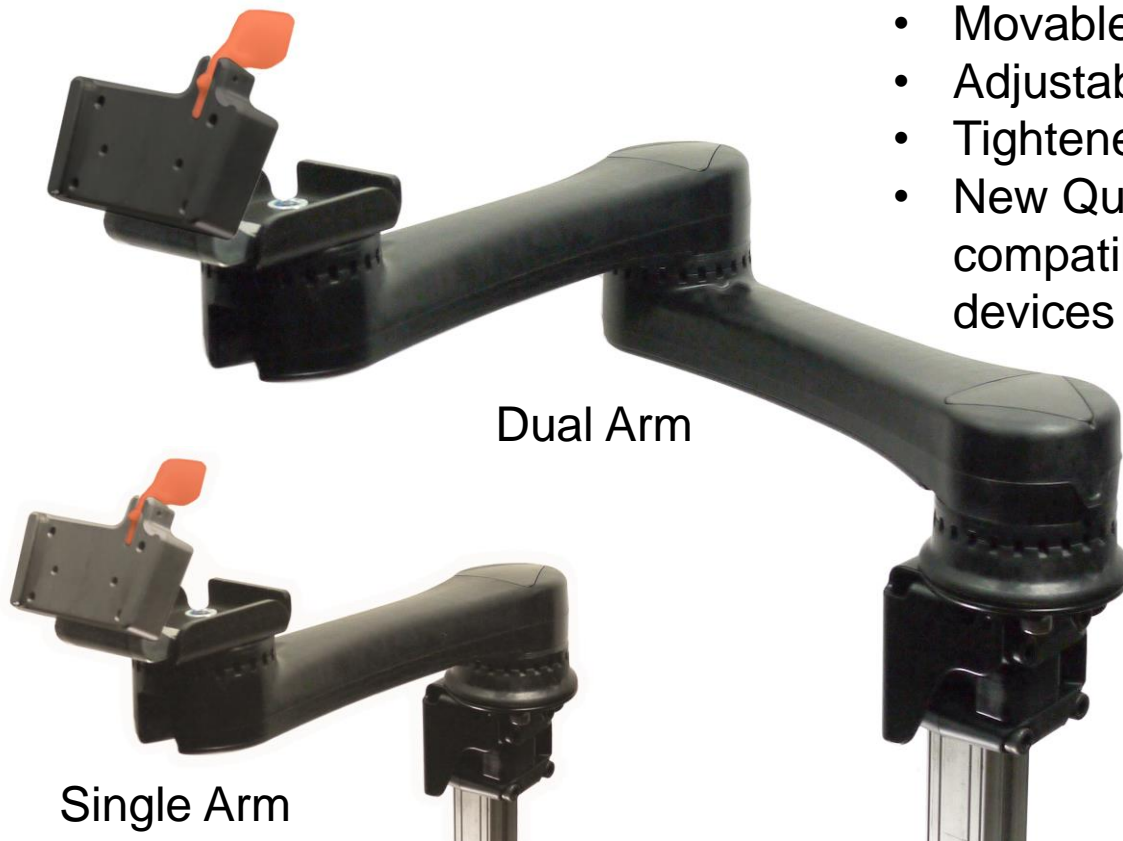


The QRP is needed to attach a device or tray to the Mount'n Mover.

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



Dual Arm

Single Arm

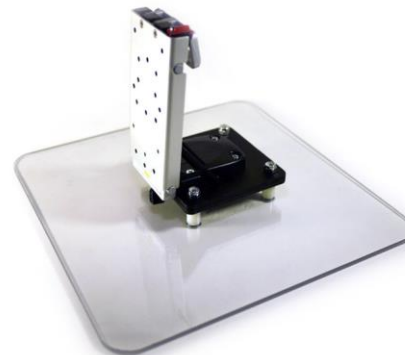
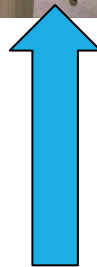


Quick Connect Plate

Table Mounts



Table Clamp



Mount'n Tilter



Stand +90

Device & Tray Attachment Options



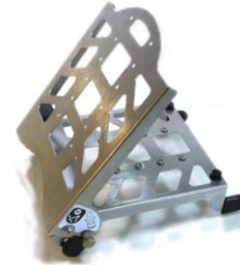
iTab Tray



12" x 12" Tray



Universal Rotator



Stand +90



Camera



Laptop Tray



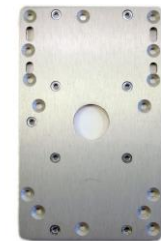
Tray with Lip



Phone



Tablet & Keyboard



Device Plates

Increase Access = Results

"We started to notice that when students had access throughout the ENTIRE day, in any and every piece of equipment, this constant access led to increased communication. There were no more sabotaged "speech" sessions. The set-up time significantly decreased, and anyone could do it! Kudos to this company! It was a total game changer!"

~Julie, OT Elementary School

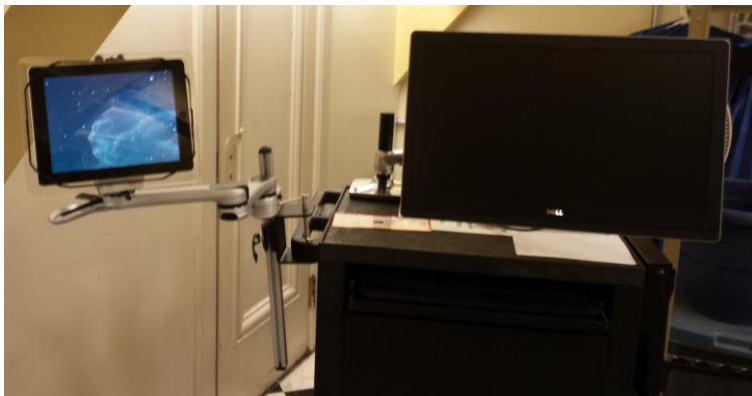


Rifton Chair and Gait Trainer

Library

Exploration Station,
Providence and Cranston
Public Library Cranston Rhode
Island

Grant from Institute of
Museum and Library Services
called ALL ACCESS



All Access AT Exploration Station

*Designed to provide on-site exploration of the
scope of accessibility features available to the
public in the libraries*



- *Mobile Presentation and Storage Cabinet*
- *Computers:*
 - 1 iPad (current model)
 - 1 PC laptop

Equipment & Software:

- *External monitor (same as used in library computer lab)*
- *23" monitor (for demos)*
- *External monitor arm (multi-position)*
- *External keyboard (same as in library computer lab).*

- *Standard mouse*
- *Selection of alternative mice:*
 - *Microsoft Wireless Mouse*
 - *Trackball Mouse*
- *Alternate keyboard (wireless)*
- *Large print keycaps (multiple sets)*
- *Bluetooth switch interface and Jelly Bean switch*
- *Mount'n Mover accessible mount*
- *Headphones, 2 pairs*
- *Freedom Scientific OPENBOOK Scan and Read software*
- *Freedom Scientific PEARL Scan Camera*

Universal Access Station Kit



- Classrooms, library
- Therapy room
- Evaluations Centers

One Mount - Many Uses

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



Mount Tilts With Chair

Impact using the *Mount'n Mover*:

- Does her work without getting fatigued
- School activities: “Easier for everyone!”
- Device positioning varies



Obed

The Mount'n Mover supports Obed's trumpet so he can play!

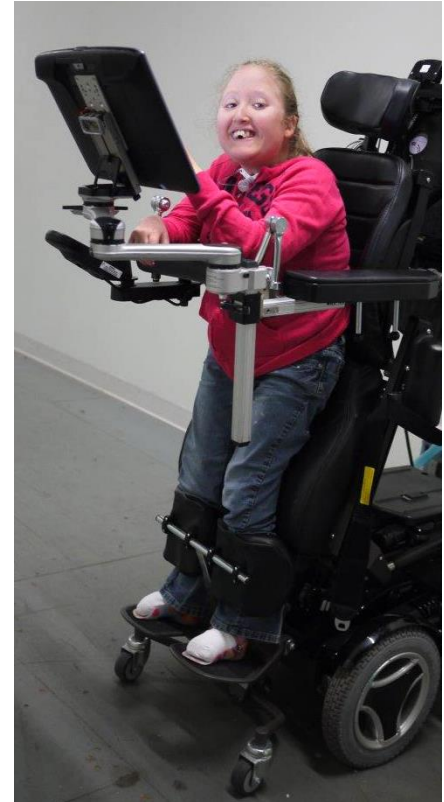


Move For Visual Access

Rotates for visual access when driving!



Access device when standing!



Anthony



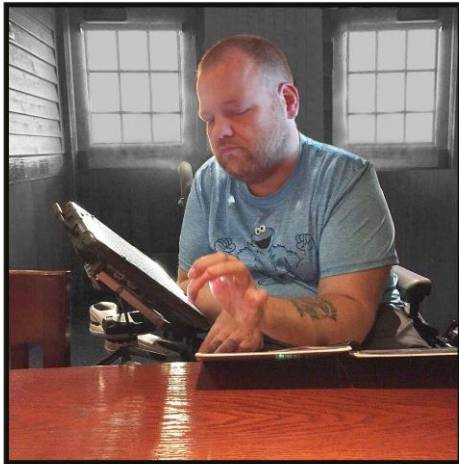
PRC Tech Support, uses ECO2,
Accent 1200, Accent 1400, iPad

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

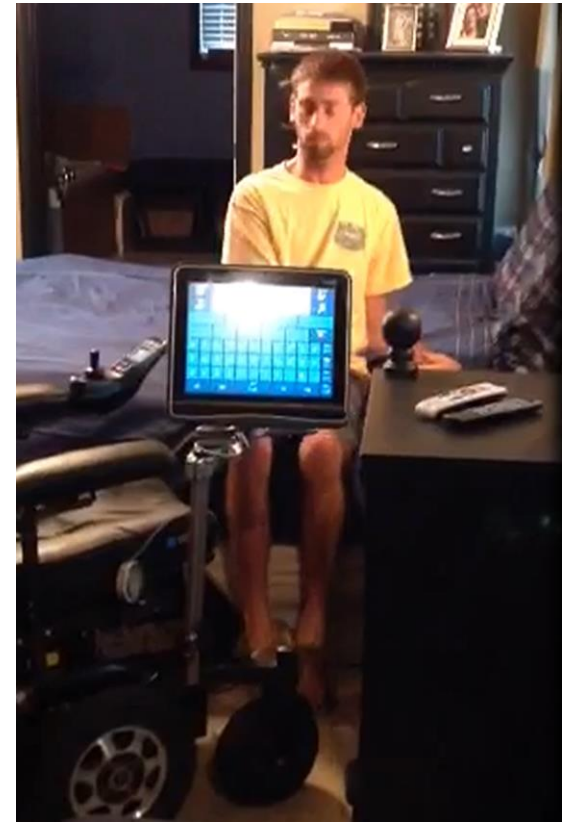


Fine motor improved since using iPhone



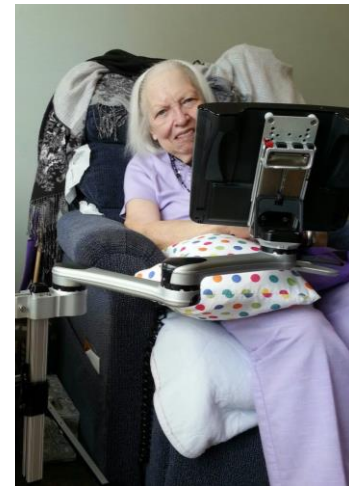
Protects device when working out at the gym and allows him to communicate with personal Trainer

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!



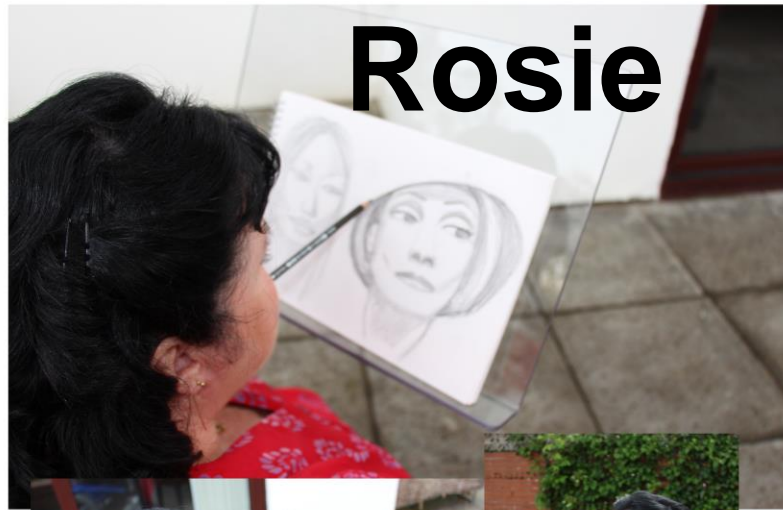
Double Decker Multipurpose



Easily swap out
devices or trays!



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”.

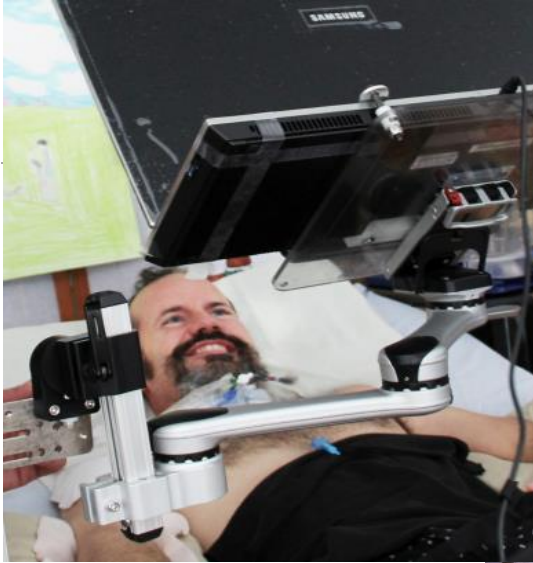
Rosie Moriarty-Simmonds OBE

Consultant, Writer, Artist, Presenter, Photographer

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

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Eye Gaze



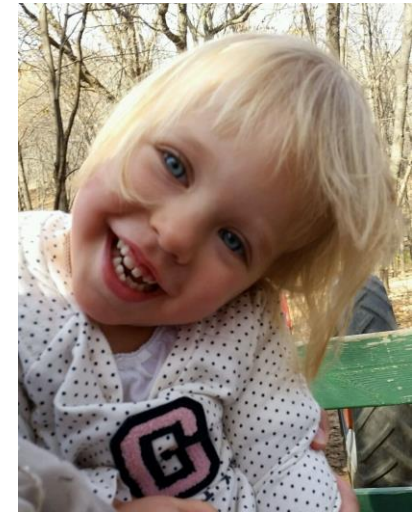
Optimizing Position for Eye Gaze



- Positioning is critical
- Need consistent placement of device
- As position changes throughout the day - so must the mount
- Tilt and rotation adjustments
- Forward tilt



Greta - Independence!

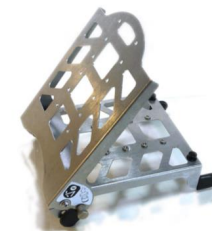
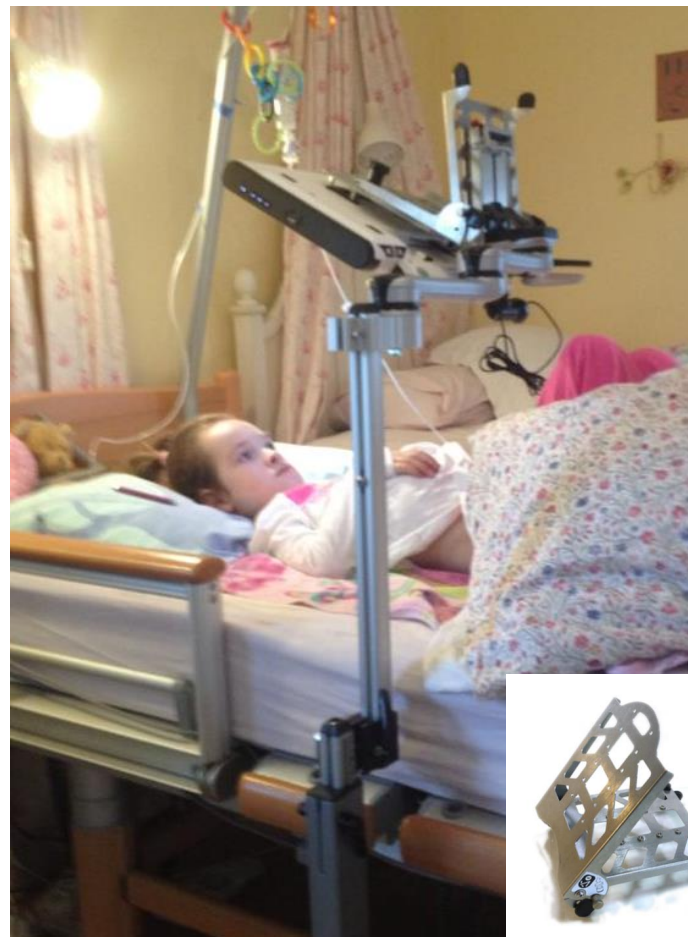
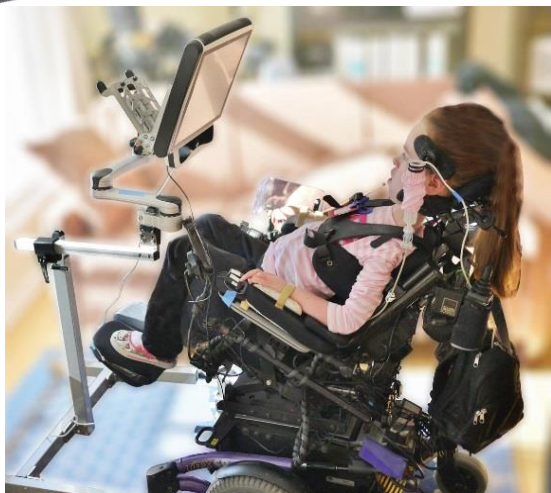


Greta places her order independently

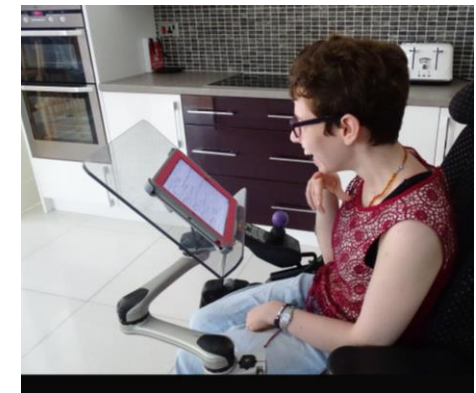
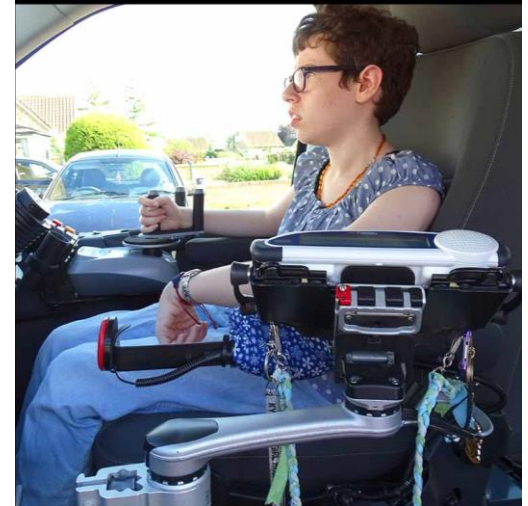
Stand+90 & Universal Rotator

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



Grows with Client to Meet Changing Needs



Tools for life!

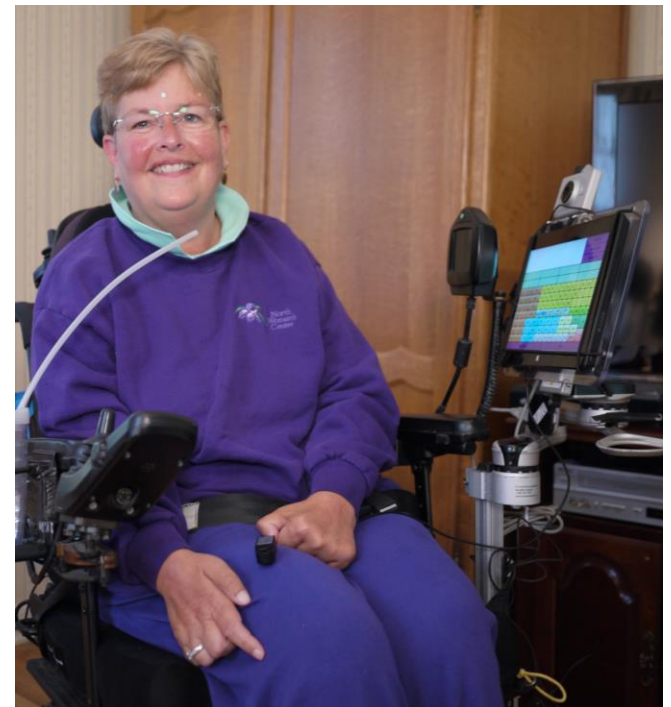
Meet Gae



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



Single Joint Pow!r

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



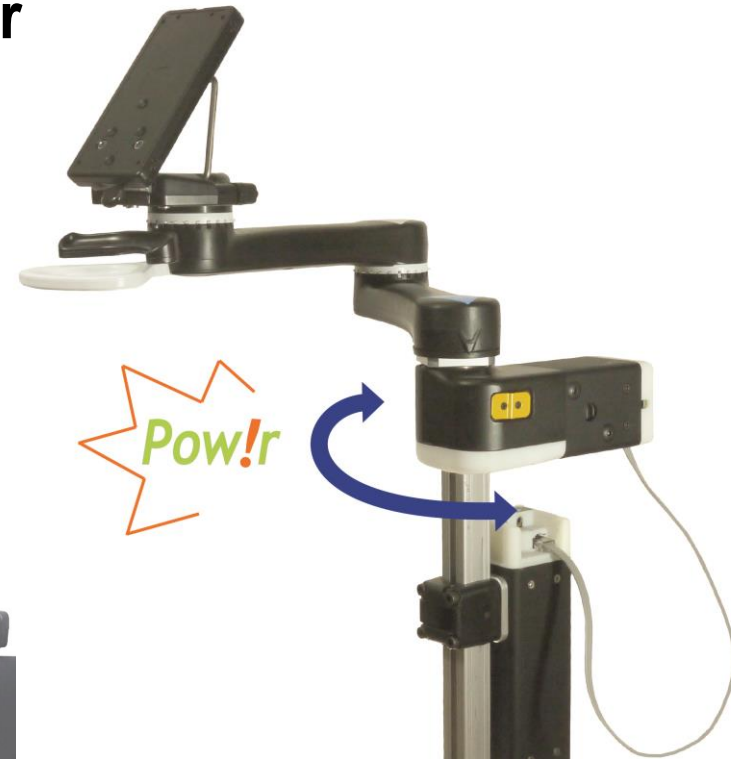
New Pow!r Mount Shoulder Hybrid System

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



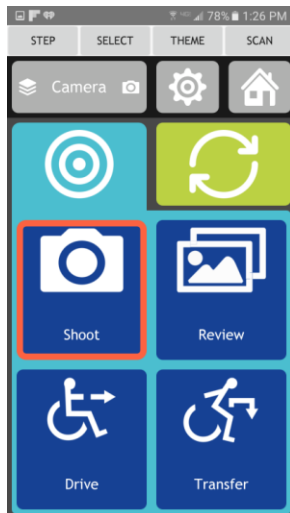
Pow!r Mount App's Main Screens

Targets—to quickly move to favorite positions

Adjust—to make adjustments to individual joints

Groups—Sets of targets for devices or environments

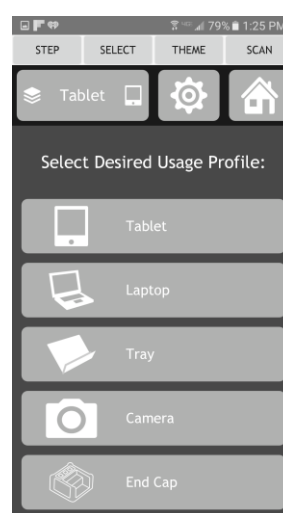
TARGETS



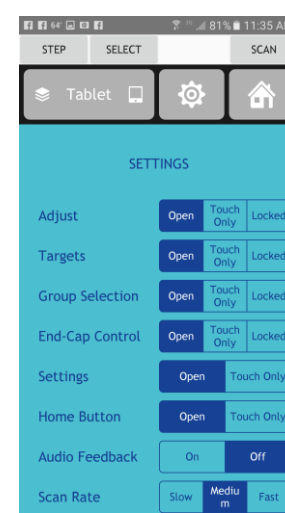
ADJUST



GROUPS

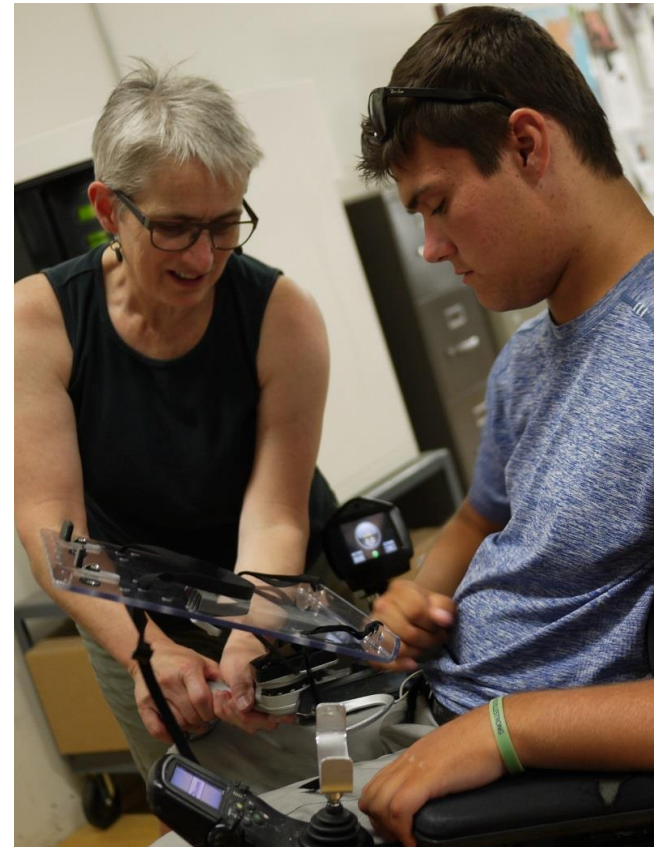


SETTINGS



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

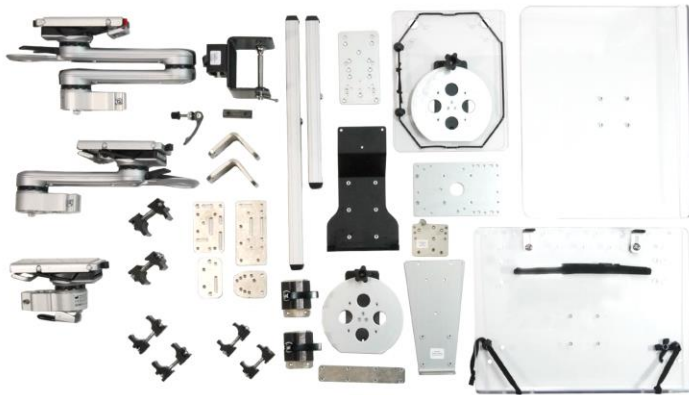
Mountnmover.com

Gae - ALS

Rick - Spinal Cord Injury

Sophia - SMA, Eye Gaze

Evaluation Kits



**Device Plate
Attachment Set**



**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:

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