

# Now:- “The 9 minute or less talk”

- Well already used up a minute or so
- 
- Wife's nephew failing health
- Now suddenly bedridden
- Only partial use of one arm/hand + no hearing or voice and very poor eyesight
- Quite a few other major issues :(
- got me thinking of ways to help
-

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< mple-... Guide to ... Guide to ... Quaterni... Kalman fi... The Kalm... An Introd... Bilgin's Bl... Assisti... New Tab > +

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**DISABLED WORLD**  
*towards tomorrow*

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All Topics A B C D E F G H I J K L M N O P Q R S T U V W Y

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**Assistive Technology Devices Products and Information**



**NOTE:** If you are looking for a list of actual products instead of reviews [Click Here](#).

If you have a disability or injury you may use a number of assistive devices or rehabilitation equipment to aid you in and around the home.

Assistive devices are tools, products or types of equipment that help you perform tasks and activities if you have a disability, injury or are a senior. Assistive devices may help you move around, see, communicate, eat, or get dressed/undressed.

Assistive devices for mobility/ambulation can also be referred to as ambulatory aids. Ambulatory aids (eg, canes, crutches, walkers) are used to provide an extension of the upper extremities to help transmit body weight and provide support for the user.

Assistive devices can help you improve your quality of life and maintain your sense of independence. Well designed high quality assistive devices, or daily living aids, that support independent living for the handicapped and disabled, seniors, or those with a medical condition or injury should make life easier and safer for the aged and disabled. AT promotes greater independence by enabling people to perform tasks that they were formerly unable to accomplish, or had great difficulty accomplishing, by providing enhancements to or changed methods of interacting with the technology needed to accomplish such tasks.

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**In This Section**

- Assistive Hearing Devices
- Biometrics Technology
- Computer Devices and
- Disability and Health A
- Hand Controls Driving
- Household Products a
- Lift Chairs and Seating
- Medical Products

- <http://www.disabled-world.com/assistivedevices/>

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Society for Participatory Medicine e-patients.net blog Journal of Participatory Medicine

 **e-patients.net**  
because health professionals can't do it alone

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E-PATIENTS.NET > E-PATIENT STORIES > HEALTH CARE HACKERS

## Health Care Hackers

Susannah Fox | July 19, 2012 [Tweet](#)



A few weeks ago, with a combination of alarm and excitement, I realized that I would be presenting my research about rare-disease communities to a roomful, not just a row full, of actual rare-disease patients and caregivers.

This was no academic exercise. It was as if I had painted their portrait and shown it with confidence to other audiences, but that day I'd hear from the portrait's subjects. Would they see the likeness?

I prepare carefully for every speech, but I knew that the [Moebius Syndrome](#) conference audience would be different. One quarter of the attendees would have full facial paralysis. They can't smile, frown, or in some cases, blink. I wondered what it would be like to speak to a potentially stony-faced audience.

I looked online at [pictures](#) of people with Moebius. I watched videos, too, getting used to seeing people talk without moving their mouths, like master ventriloquists.

There would also be a lot of parents and grandparents of kids with Moebius in attendance. Pew

Connecting to platform.twitter.com...

**Welcome**

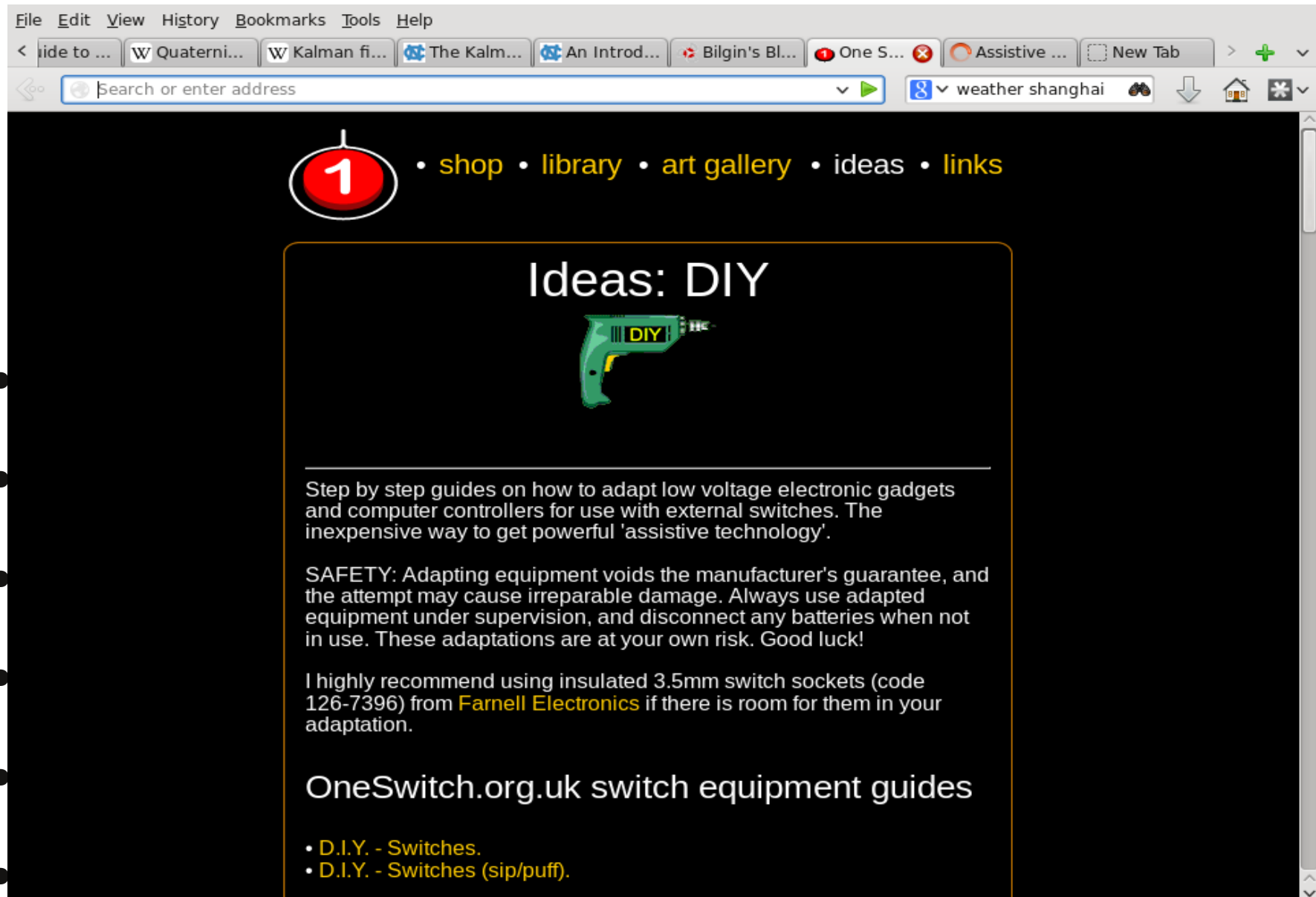


*Participatory Medicine is a model of health care that seeks to achieve active involvement by patients, professionals, and others across the continuum of issues related to an individual's health. Participatory medicine is an ethical care that also holds promise to improve, reduce medical errors, increase patient satisfaction and improve the cost of*

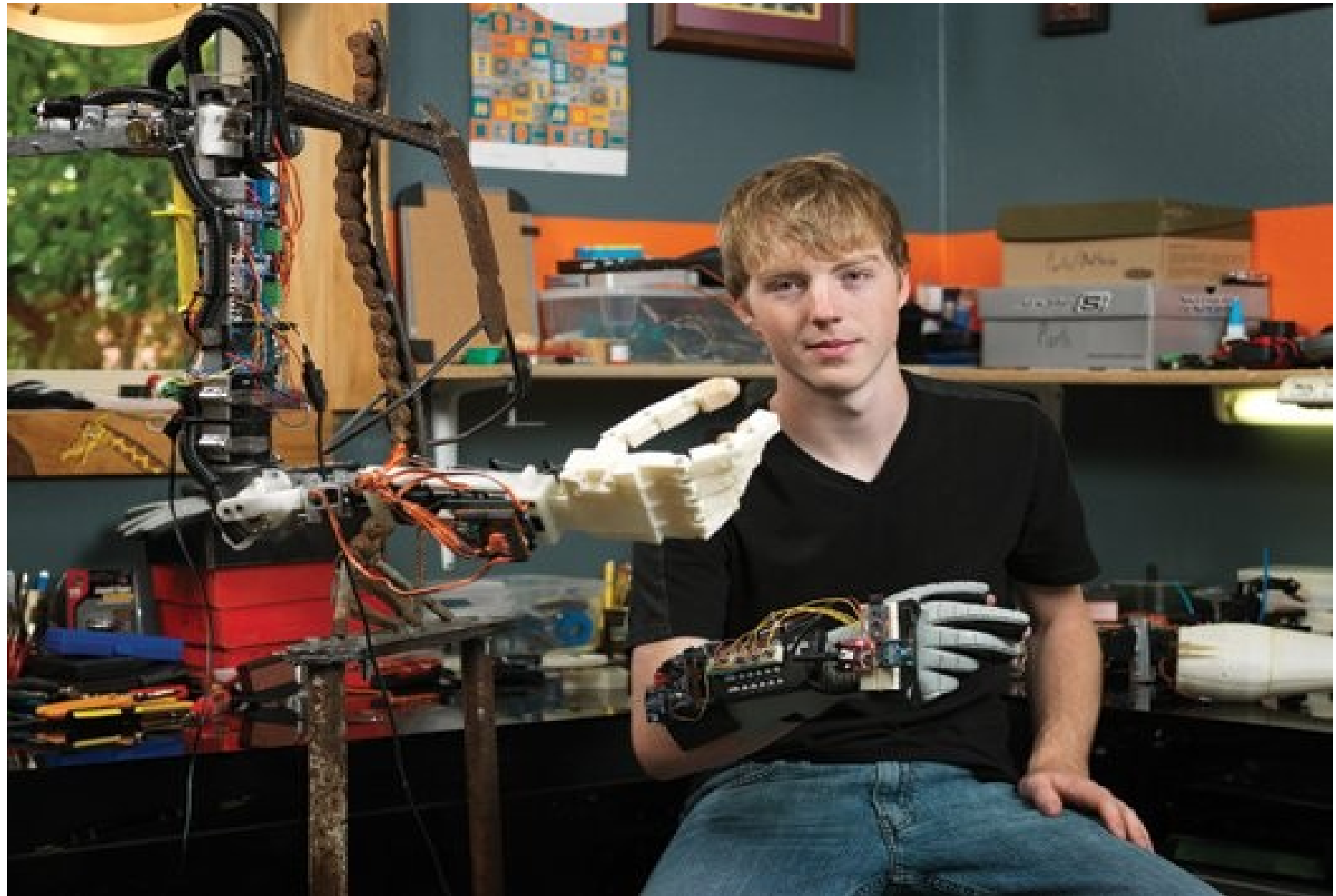
[Join the Society](#) [Member](#)

**Stay Connected**

- <http://e-patients.net/archives/2012/07/health-care-hackers.html>



- <http://www.oneswitch.org.uk/4/DIY/>



- 
- 
- 
- 
- 
- <http://www.digi.com/blog/community/create-your-own-outcome-easton-lachappelle-reinvent-the-conventional-prosthetic/>



# One list of people making controllers

The screenshot shows a web browser window with the address bar displaying 'http://thecontrollerproject.com/forum/viewforum.php?f=5&sid=8449c2ae2b4f01ec93195b24d8d3682e'. The browser's address bar also shows 'weather shanghai' and a search bar. The forum page is titled 'I make controllers' and is on 'Page 1 of 1' with 18 topics. The forum post list includes the following topics and authors:

Topic	Author	Replies	Views	Last post
Adam in Seattle	adam	2	22	Sun Jun 30, 2013 8:27 am
Fabien, France.	Fabien T.	0	22	Mon Jun 24, 2013 8:10 pm
Cory - Novice in Tampa, FL	PeteCory	2	93	Mon Jun 24, 2013 1:28 pm
Caleb C. Fort Collins, Co	supersurfer92	0	30	Mon Jun 24, 2013 3:43 am
Iarsen - AVR/some general HMI	Iarsen	1	77	Sat Jun 22, 2013 3:37 pm
Victor - Electrical Engineer - Hardware and Firmware - NL	victor	1	66	Sat Jun 22, 2013 3:36 pm
I'm Caleb Kraft. I'm in Missouri	calebkraft	2	128	Sat Jun 22, 2013 3:36 pm
Adam - offering SketchUp Pro skills	wossname	1	52	Fri Jun 21, 2013 8:02 pm
Chris Taylor - San Diego CA	ImOblivion	1	66	Fri Jun 21, 2013 8:01 pm
Robert - Electronics Technician - Australia	OzTech	1	77	Fri Jun 21, 2013 2:47 pm
Chris - Arizona	Silverball	3	99	Fri Jun 21, 2013 2:43 pm
Matthew - Winnipeg, MB, Canada	WireX	1	55	Fri Jun 21, 2013 2:40 pm
Solid from Houston TX	Solid	1	54	Fri Jun 21, 2013 2:40 pm
Dominic Canare - Wichita, KS	domstyle	1	55	Fri Jun 21, 2013 2:39 pm
Peter (aka Wire) - Rochester, MN	Wire	1	57	Thu Jun 20, 2013 10:14 pm
Paul - Austin, TX	pma32904	1	68	Thu Jun 20, 2013 9:06 pm
Kevin - New Mexico	TheKnerd	1	64	Thu Jun 20, 2013 8:35 pm
US-TN 3D printing offered	Orias	1	94	Thu Jun 20, 2013 3:32 am

The forum page also includes a search bar, a 'New Topic' button, and a 'Who is online' section at the bottom.

- Note list is LESS than two weeks old!
- <http://thecontrollerproject.com/forum/viewforum.php?f=5&sid=8449c2ae2b4f01ec93195b24d8d3682e>

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thecontrollerproject.com/forum/viewforum.php?f=3&sid=8449c2ae2b4f01ec93195b

weather shanghai

Username: Password: Log me on automatically each visit Login

View unanswered posts View active topics

**thecontrollerproject.com**  
Custom gaming controller community

Board index FAQ Search Login Register

Board index Custom Gaming Controllers I'm looking for someone to make me a controller All times are UTC

I'm looking for someone to make me a controller

New Topic Page 1 of 1 [ 7 topics ]

Search for: Go

Topics	Author	Replies	Views	Last post
Wii Nunchuck to replace WASD controls.	Longrange	5	124	Mon Jul 01, 2013 9:49 pm victor
Xbox 360 controller for one hand	Cammytea	9	106	Mon Jul 01, 2013 9:40 pm KitsunePaws
[Spinal Muscular Atrophy] 3DS controller mod Go to page: 1, 2	PRIZZA	13	140	Mon Jul 01, 2013 8:24 pm devdandi
[Cerebral Palsy] "One handed" Wii Controller Go to page: 1, 2	skyhopper88	10	230	Fri Jun 28, 2013 11:19 pm skyhopper88
xbox controller	devdragon	5	175	Sun Jun 23, 2013 11:43 pm devdragon
[Muscular Dystrophy] Looking for switch input/switches. Go to page: 1, 2, 3, 4	sydwashere	33	384	Sun Jun 23, 2013 7:05 pm sydwashere
Tourette Syndrome Go to page: 1, 2, 3	OS_Epsilon	20	379	Sat Jun 22, 2013 4:14 pm victor

Display topics from previous: All Topics Sort by Post time Descending Go

New Topic Page 1 of 1 [ 7 topics ]

Board index Custom Gaming Controllers I'm looking for someone to make me a controller All times are UTC

Who is online

Users browsing this forum: No registered users and 1 guest

Unread posts No unread posts Announcement  
Unread posts [ Popular ] No unread posts [ Popular ] Sticky  
Unread posts [ Locked ] No unread posts [ Locked ] Moved topic

You cannot post new topics in this forum  
You cannot reply to topics in this forum  
You cannot edit your posts in this forum  
You cannot delete your posts in this forum  
You cannot post attachments in this forum

Jump to: I'm looking for someone to make me a controller Go

Theme Created By: ceyhanosman

- <http://thecontrollerproject.com/forum/viewforum.php?f=3&sid=8449c2ae2b4f01ec93195b24d8d3682e>
- PS:- Caleb has just left HackaDay

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products.disabled-world.com weather shanghai

The screenshot displays a website with a grid of 24 product images, each with a caption below it. The products include:

- Hand Key-per
- Ergonomic Reacher With Rotating Claw 18 Inch
- Ergonomic Reacher With Rotating Claw 27 Inch
- Hands Free Card Holders
- Ez Key Turner
- Door Knob Gripper
- Pen And Pencil Cushions
- Lamp Switch Enlarger
- 22 Inch Ez Reacher
- 32 Inch Ez Reacher
- 22 Inch Ez Reacher With Saf-t-lok
- Ez Wrist Support
- 32 Inch Ez Reacher With Saf-t-lok
- 32 Inch Folding Ez Reacher With Saf-t-lok
- 42 Inch Ez Reacher With Saf-t-lok
- Great Grips Doorknob Turners
- Neo Bird Freeform Writing Pen
- Pen And Pencil Weights

On the right side of the page, there is a promotional banner for "Summer is Coming!" with a "HOT SALE" tag, and a list of product categories:

- Adaptive Clothing
- Canadian Health Medical D
- Canes & Cane Accessories
- Comfort Aids
- Dressing Aids
- Featured Products
- Garden Tools
- Gift Certificates
- Household Products
- Independent Living Produc
- Kitchen Products
- Misc. Equipment and Items
- Mobility Products
- Plus Size Clothing
- Popular Items
- Sitting, Standing and Trans
- Vitamins, Minerals and Pro
- Web Specials

Below the list, there is a section titled "Specials - Coupons & Deal" with the text: "View the very latest selection clearance, overstock and mo items featuring adapted uten devices, gifts for seniors, disa and adaptive daily living aids".

products.disabled-world.com/1\_457262056/neo-bird-freeform-writing-pen.html

• LOTS OF DESIGN & 3D PRINTING OPPORTUNITIES!!!!

•

• <http://products.disabled-world.com/>



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www.enablemart.com/switches/general-switches

View as: Sort By: Best Sellers













Items 1-16 of 37 Page: 1 2 3 Show 16 per page

**Shop By:**

**Price**  
 \$0.00 - \$100.00 (24)  
 \$100.00 - \$200.00 (11)  
 \$200.00 - \$300.00 (1)  
 \$300.00 - \$400.00 (1)

**Brand**  
 Adaptation (2)  
 RJ Cooper (2)  
 Enabling Devices (12)  
 Gimpgear (4)  
 AbleNet (13)  
 Big Red (1)  
 AMDi (1)

**Compare Products**  
 You have no items to compare.

 <a href="#">BIGmack® Communicator</a> \$119.00 In Stock <a href="#">More info</a>  <a href="#">Add to Compare</a>	 <a href="#">Jelly Bean® Twist-Top Switch</a> \$58.00 In Stock <a href="#">More info</a>  <a href="#">Add to Compare</a>	 <a href="#">Buddy Buttons</a> \$49.95 - \$52.00 In Stock <a href="#">More info</a>  <a href="#">Add to Compare</a>	 <a href="#">Specs® Switch</a> \$39.95 - \$45.00 In Stock <a href="#">More info</a>  <a href="#">Add to Compare</a>
 <a href="#">Jelly Beamer Twist Wireless Switch and Receiver</a> \$155.00	 <a href="#">BIG Step-by-Step Choice with Levels</a> \$189.00	 <a href="#">Adaptation Pal Pad Switches</a> \$41.00 - \$49.00	 <a href="#">Big Red® Twist Switch</a> \$58.00 In Stock

www.enablemart.com/catalog/product\_compare/add/product/34882/uenc/aHR0cDovL3d3dy5lbmFibGVtYXJ0LmNvbS9zd2l0Y2hlcy9nZW5lcmFsLXN3aXRjaGVz/

- <http://www.enablemart.com/switches/general-switches>

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www.enablemart.com/tracker-pro

Speech & Communication Learning & Instruction Vision Hearing Sensory & Motor Skills Computer Accessibility Switches Mobility Senior Living ADA Compliance

Complete Speech Autism First Aid Infection Control New Products Specials Clearance Brands

Home / TrackerPro



**TrackerPro**  
Item # 89248

Availability: In Stock

[Be the first to review this product](#)

**Our Price \$945.00**

Qty:  [Add to Cart](#)

[Add to Supply List](#)  
[Email to a Friend](#)  
[Add to Compare](#)

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**Quick Overview**

The perfect solution for head tracking need. A small "camera" that mounts to the computer's monitor and converts movement of a reflective target worn by the user to simulate computer mouse movement.

**Product Description** Technical

Anything that can be done with a regular hand mouse can be done using TrackerPro. Designed for people with limited use of their hands, it is a high-resolution intelligent camera that provides smooth, reliable, and robust operation. It incorporates dependability and functionality with easy mounting. It tracks a small dot placed on forehead, glasses or rim of a hat. TrackerPro operates from the USB port of your computer or compatible AAC device. Just plug it in and it works just like a mouse - no additional software required, no need of battery packs or power adapters.

`javascript:productAddToCartForm.submit(this)`

**The Enablemart Difference**





- ✓ 100% Guarantee
- ✓ Huge Selection
- ✓ Speedy Delivery
- ✓ Everyday Savings
- ✓ Loyalty Rewards

**My Cart**

You have no items in your shopping cart.

**Compare Products**

You have no items to compare.

ABOUT SSL CERTIFICATES

Chat now

- <http://www.enablemart.com/tracker-pro>

# How much?

- How much for the reflective dots?

---

- 
- 



Sorry, no image currently available

**TrackerPro Reflective Dots**

**Our Price** **\$25.00**

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Head & Eye Tracking | Enablemart.com - Mozilla Firefox

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www.enablemart.com/computer-accessibility/alternative-input/head-and-eye-tracking

Complete Speech Autism First Aid Infection Control New Products Specials Clearance Brands

Home / Computer Accessibility / Alternative Input / Head & Eye Tracking

Shop By:

**Price**  
 \$0.00 - \$1,000.00 (13)  
 \$1,000.00 - \$2,000.00 (3)  
 \$2,000.00 - \$3,000.00 (1)  
 \$7,000.00 - \$8,000.00 (2)

**Brand**  
 Maddak (1)  
 EyeTech (2)  
 Claro (1)  
 Lazee (1)  
 Sammons Preston (1)  
 InvoTek (3)  
 Maltron (1)  
 NaturalPoint (2)  
 Vorant (1)  
 Compusult (1)  
 Origin (2)  
 AbleNet (2)  
 SEMCO (1)









**Compare Products**  
 You have no items to compare.

View as:

Sort By: Best Sellers

Items 1-16 of 19 Page: 1 2

Show 16 per page

 <p><a href="#">Jouse 2</a> \$1,550.00 Available <a href="#">More info</a> <a href="#">Add to Compare</a></p>	 <p><a href="#">TrackerPro</a> \$945.00 In Stock <a href="#">More info</a> <a href="#">Add to Compare</a></p>	 <p><a href="#">SmartNav 4 AT: Win</a> \$475.24 In Stock <a href="#">More info</a> <a href="#">Add to Compare</a></p>	 <p><a href="#">Headmouse Extreme Bundle</a> \$1,145.00 - \$1,225.00 In Stock <a href="#">More info</a> <a href="#">Add to Compare</a></p>
 <p><a href="#">Headmouse Extreme</a> \$995.00</p>	 <p><a href="#">EyeTech TM4</a> \$7,480.00</p>	 <p><a href="#">InvoTek Safe Laser System</a> \$2,995.00</p>	 <p><a href="#">Maltron Single Finger/Mouth</a> Leave a message</p>

- <http://www.enablemart.com/computer-accessibility/alternative-input/head-and-eye-tracking>



# <http://komodoopenlab.com/tecla/>

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< transfabric 2013Cre... Assistive ... Tecla |... thecontr... thecontr... thecontr... atmel i2c... Wire A > + v

komodoopenlab.com/tecla/ ☆ weather shanghai

## Take control of your device.

Tecla is a set of tools that provides access to mobile devices, such as smartphones and tablets, for those who are unable to manipulate them due to disease or disability.

With Tecla, you can take control of your mobile device using the interfaces you are already familiar with, such as your wheelchair driving controls or adapted switches.

```
graph LR; User[Tecla user sends command via] --> DrivingControl[Driving Control]; User --> AdaptedSwitch[Adapted Switch]; DrivingControl --> TeclaShield[Tecla Shield]; AdaptedSwitch --> TeclaShield; TeclaShield --> MobileDevice[User controls mobile device];
```

tecla shield dos

Questions? Suggestions?



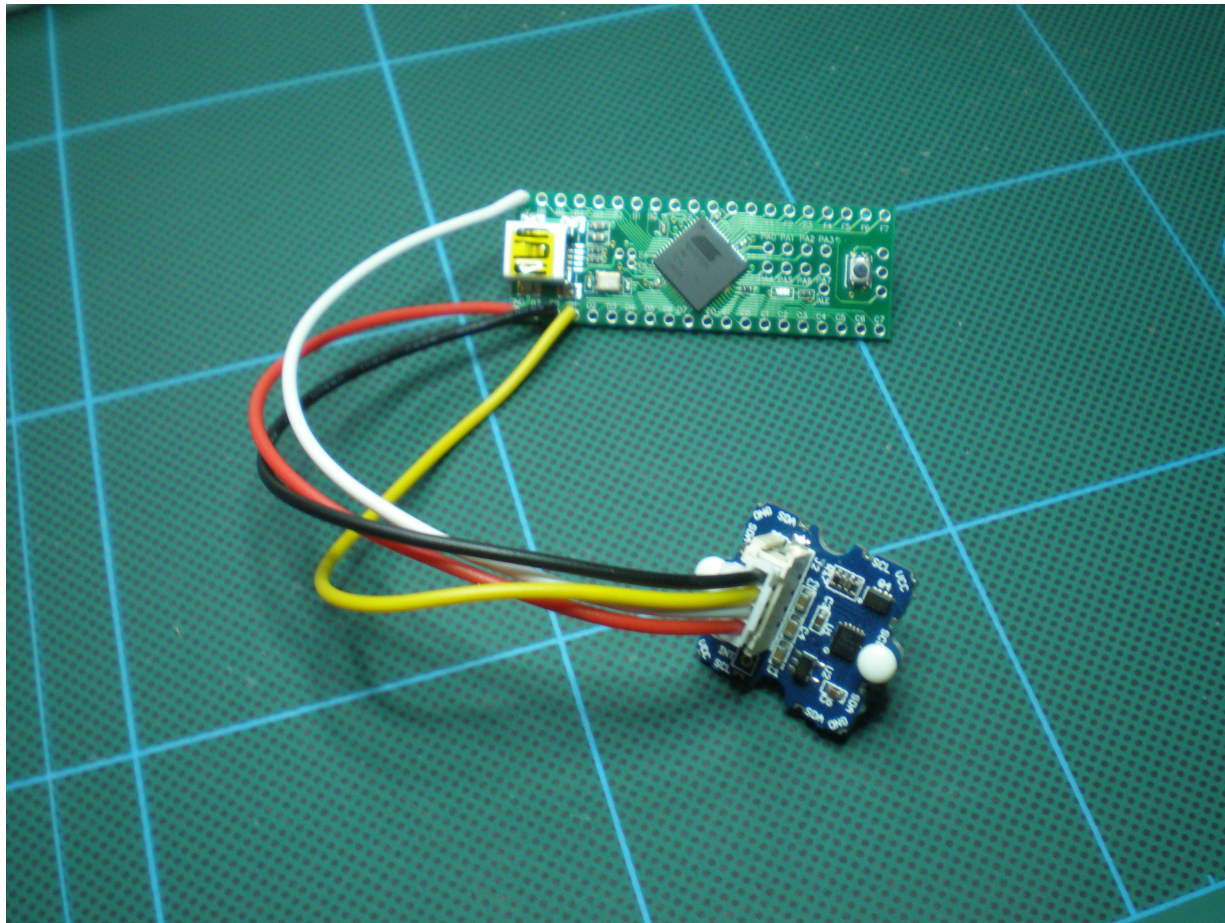
# \$289 .... Holy \$#!+

- “the cost is \$289 Canadian. My initial reaction was Holy \$#!+ That’s outrageous!”
- 
- “If I knew what I was doing I could build something similar for about \$75 worth of parts” ..... ***so in China maybe \$30 or less to DIY***
- 
- ...”On further review it probably is a reasonable price for a commercially built product”
- 
- <http://tech.cyborg5.com/2013/01/06/assistive-technology-at-both-ends-of-the-price-spectrum/>

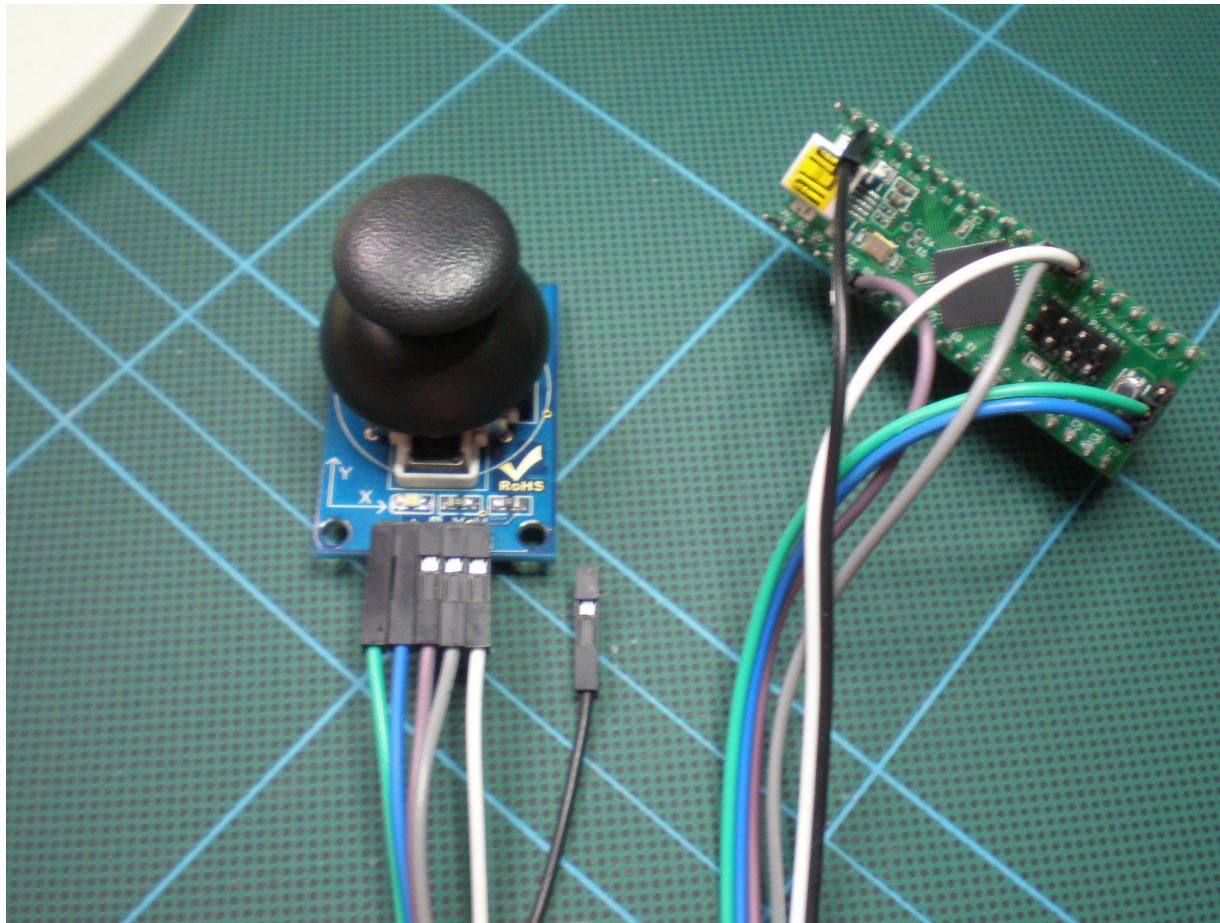
# •My first attempt = big joystick

- seemed to suit
- easy to do
- strong, robust
- handle large movements
- ... but
  - need v big screen & v close
  - have to move screen quickly & easily - LOTs of hourly & urgent medical treatments
  - actually need semi-fixed - stable base otherwise joystick flops about
- ... so still not sure if it would actually work for him!!!

# Accelerometer MMA7660 as mouse

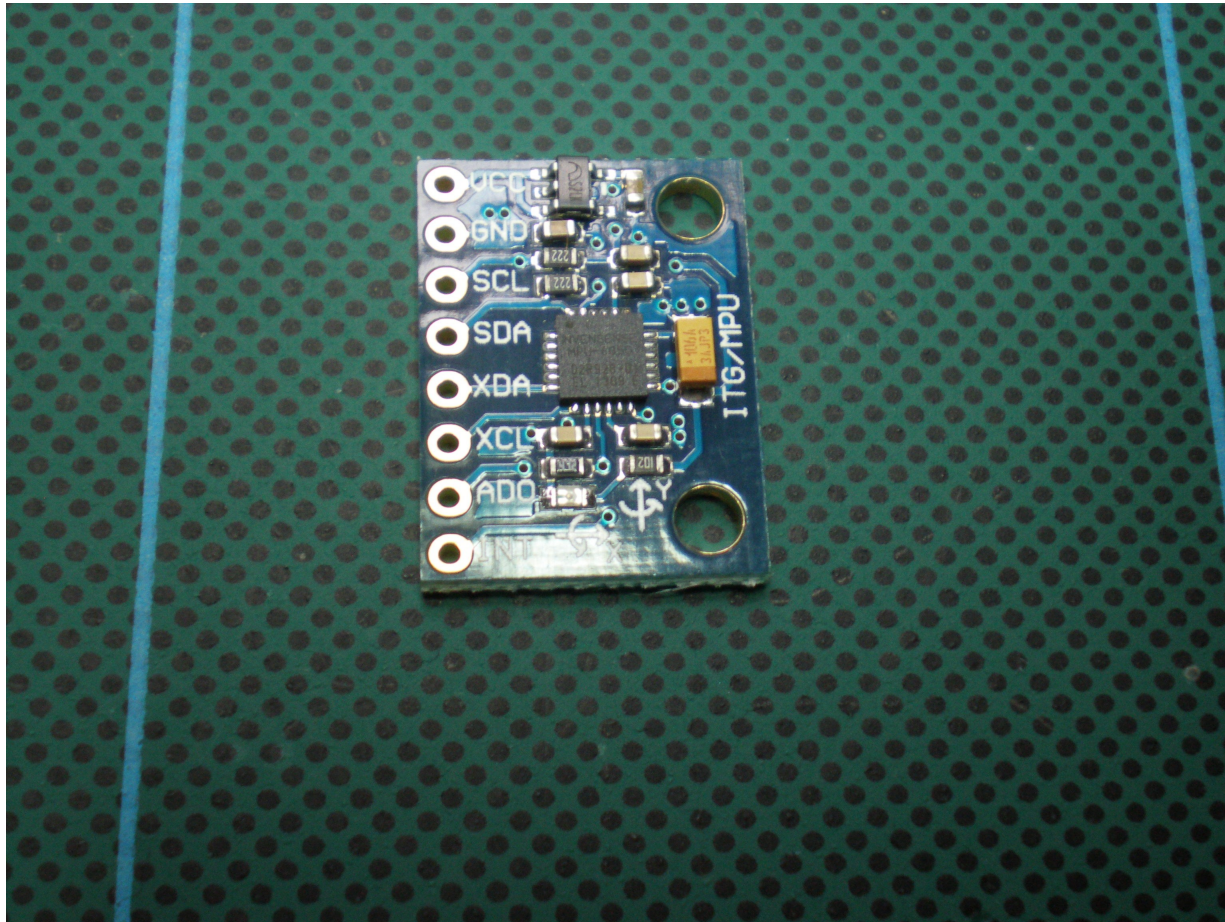


# Thumb Joystick mouse





# Accelerometer + Gyro as mouse





# Progress & possibilities, BUT...

- Need more effort to make usable
- Need more ideas to make better (hardware, software, better solutions, ....)
- Need encouragement & support
- 
- Well sounds just like .....

# Making stuff at XCJ

- play with HEAPS of dif technology
- design and make things (3D print, mold/sculpt)....
- overcome challenges
- do stuff - have fun
- Really useful XCJ's members MANY languages!!!
- ..... potential to raise funds for xcj or ....
- help others – community
  - Several XCJ members already helped a lot
  - Plus more help via mailing list!

# Additional side track / parallel activity-idea

- last year I was thinking starting regular making/sharing sessions
  - a bit like the Aquaponics
  - aim is encourage people to ask questions/learn
  - could have dif topic each session, or free form, or mix
  - not because X CJ lacking, in fact partly too much happening - need avoid distraction/focus!!!
- It's like everyday @ X CJ, but adds
  - regular time/s were people come to learn/share
  - free to ask questions without disturbing others work
- BECAUSE EVERYONE is a beginner at something/many things
- BECAUSE EVERYONE everyone has things to share :)

# Combine ideas: Make-hack-play Sessions

- Weekly sessions – learn/share ask questions!
- Some sessions on particular topic
- Use assistive projects as a learning focus
  - design, physical hardware, 3D printing, electronics, software, coding, .....
  - Reduce uncertainty by assigning tasks, with guidance and support if required

# No experience required!

- Can learn as you participate!
- Need to be XCJ member – 100RMB/month!
- Can use many XCJ sensors and uP for free
- Other devices – may need to raise funds



# How to get involved

- Come and chat to me
- Chat to anyone here
- Just do it - make it happen  
{XCJ is a do-ocracy!}
- 
- Xinchajian.com – mailing list
- Any XinCheJian contact method on Xinchajian.com
- [spanner888@xinchajian.com](mailto:spanner888@xinchajian.com)