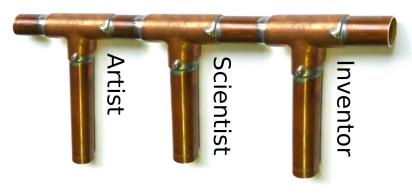




Could we re-create Leonardo da Vinci with a team of 3 people? It would be like composing a symphony orchestra by committee!



Let me introduce something I call the *-shaped designer. The "*" symbol in UNIX is a symbol for anything Shapeshifters -- -- Any-Shaped Designers...

The X-Shaped Designer

Introduced by Rooke&Torbert. 2005. Refined by Smith 2008.

- I-Shaped 36% of designers: 1 area of speciality.
- T-Shaped 30% of designers: Broad + Deep in 1 area.
- H-Shaped 11% of designers: 2 areas of speciality.
- X-Shaped 03% of designers: "Me" at the center.

Art, Science, Engineering, and Business.

Rooke, Torbert, and Smith define X-Shaped People as loners and sociopaths.

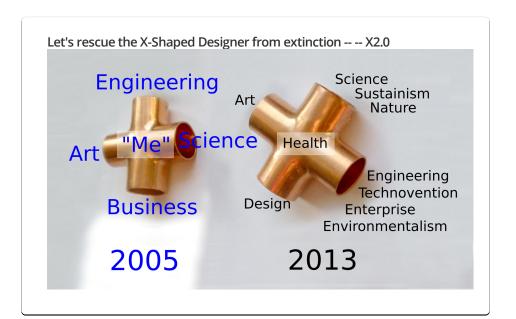
Allege that X-shaped people are not a good fit for Western society!

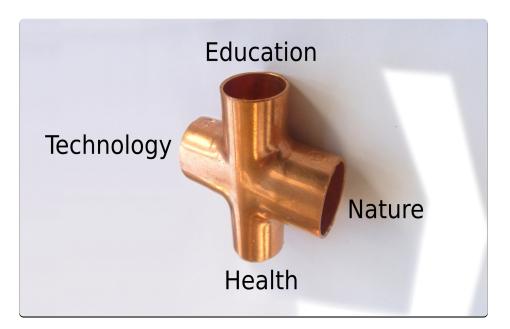
[Harvard Business Review 2005, Interkannections 2008.]

Collaborative effort to "revive" the X-Shaped Designer: T. Barker, S. Diamond, and S. Mann

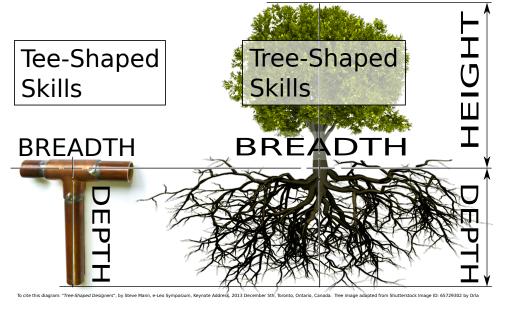












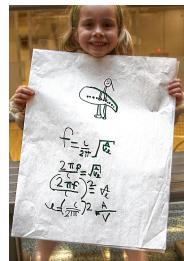
Tinquiry and Praxistemology

Educational framework for Tree-Shaped Designers

Praxistemology = Praxis of Existential Technology: Self-determination, Authenticity, ...

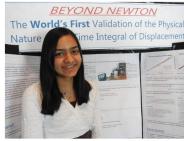
Tinquiry = Tinkering as a form of Inquiry: Maktivism...

Grant proposals, ongoing collaboration, etc..



14-year-old from Oro-Medonte sets her sights on Isaac Newton's theories

By Roberta Bell, Orlika Packet & Times Tuesday, March 26, 2013 6:45:03 EDT Pf



Fourteen-year-old Maya Burhanpurkar of Oro-Medonte has come up with a method of measuring th time integral of displacement and developed a project that proves it has a significance. She will be competing at the Intel International Science and Engineering Fair in Phoenix, Ariz,

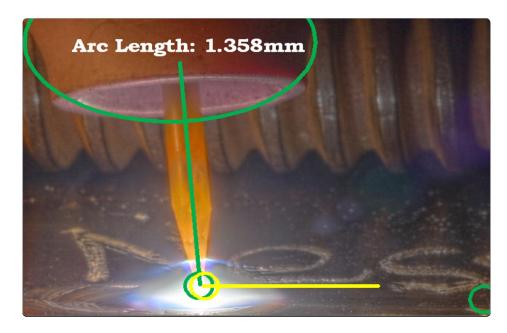
For more than 300 years, the base of fundamental physics laid by Isaac Newton ha

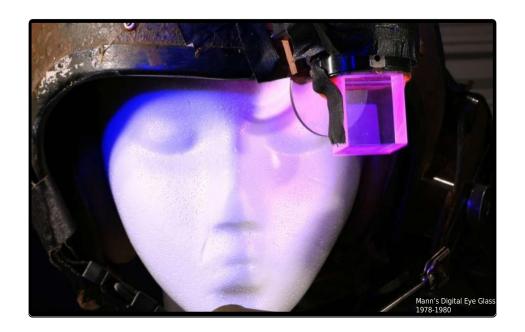
hen Oro-Medonte's 14-year-old Maya Burhanpurkar looked into it.

Until now, scientists have only really been considering derivatives of distance, as outlined by Newton, said Burhanpurkar, who has come up with a project validating the last

"Distance, velocity, acceleration — those are all things we're able to measure, but the integral of displacement is something that hasn't ever been investigated before."

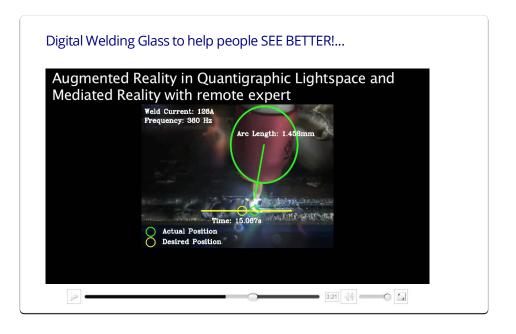












"The first report of digitally combining multiple pictures of the same scene to improve dynamic range appears to be Mann. 3 " -- M. A. Robertson et al.

Journal of Electronic Imaging / April 2003 / Vol. 12(2) / 219-228

- S. Mann and R. W. Picard, "Video orbits of the projective group: A simple approach to featureless estimation of parameters," *IEEE Trans. Image Process.* 6(9), 1281–1295 (Sep. 1997).
 C. W. Wyckoff, "An experimental extended exposure response film," in *SPIE Newsletter*, pp. 16–20 (June/July 1962).
 S. Mann, "Compositing multiple pictures of the same scene," *Proc. 46th Annual IS&T Conf.*, Boston, MA, pp. 50–52, May 9–14, 1993.
 S. Mann and R. W. Picard, "On being 'undigital' with digital cameras: Extending dynamic range by combining differently exposed pictures," *IS&T's 48th Annual Conf.* Washington, D.C., pp. 422–428, May 7–11, 1995.

United States Patent 5,828,793

Mann

METHOD AND APPARATUS FOR PRODUCING DIGITAL IMAGES HAVING EXTENDED DYNAMIC RANGES

[75] Inventor: Steve Mann, Cambridge, Mass.

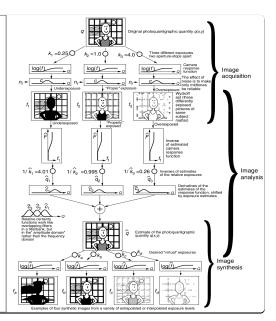
[73] Assignee: Massachusetts Institute of Technology, Cambridge, Mass.

[22] Filed: May 6, 1996

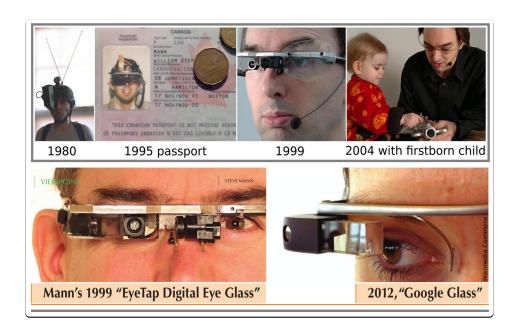
OTHER PUBLICATIONS

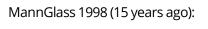
Mann, Steve; "Compositing Pictures of the Same Scene," Massachusetts Institute of Technology, Cambridge, MA

Mann, Steve; "Lightspace," MIT Media Laboratory, Information and Entertainment Systems Group, Dec. 1992.



Founding of the MIT Wearable Computing Project: Early 1990s S NEGROPONTE

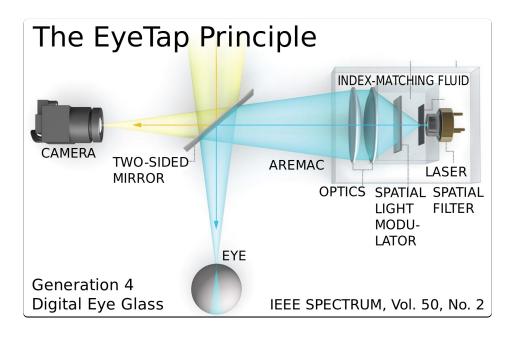






Thin strip of metal wraps around the head; No hinges: 1-piece construction.











Many inventions come from research labs.

But WearComp, DEG, SixthSense, HDR, etc., are inventions that came from my everyday life.

In this respect these technologies are very much in and of the real world, not just the lab!

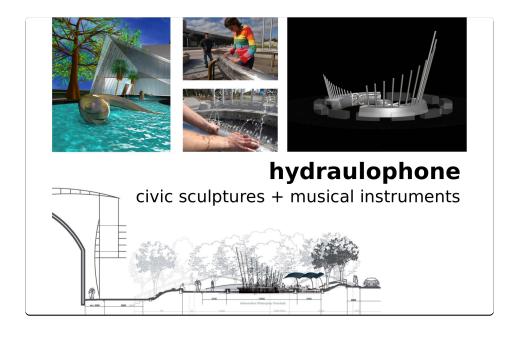














Hydraulophone



Toronto: Home of the world's largest hydraulophone!!!

- •Main centerpiece in front of landmark architecture site;
- •Water conservation: sophisticated recirculation system;
- •Permanent public art installation open 24 hours a day.



Universal access: Age, Ability...
Outdoor Classroom:
Forest of Tree-Shaped Designers!
Alumni news

CATHY MCFEE:

CNIB OPENS INNOVATIVE OUTDOOR CLASSROOM FOR CHILDREN

BY SARAH FABBRI

A young boy in a playground giggles when he discovers that a special water fountial he is playing with makes different sounds when he moves his fingers—like a sphosent. The boy is blind and he's playing on something called a hypfanelpoine which is helping his man more about the world around him. He's in the CNIB's (Canedian National Institute for the Birdy neonthy opened obtator Classroom in Calgary, it's the first facility of its kind in Canedia.

We have created something that has tramondous meaning for these children and their families," says Cathy McFee. Director of Services and Operations, CNIB - Alberta, CNIB - Alberta Williams and Continues and Constitution, CNIB - Alberta Williams and Continues of Excellence us staying and says her Barrif Centric experiences played an important role in the

The idea for the classroom started more than two years ag when employees with Urban Systems, a Calgary consulting about developing a sensory playground to better meet the needs of children with vision lose, she says. Currently CNIB Calgary has about 80 preschool children registered with its sentices.

e started to ask ourselves questions such as: Who us a space? How is it used? How does it compliment the vices of the CNIB program?" says Leighton Ginther of ban Systems.

There was a lot or emiliaram and creativity, recais weree.
"We pulled together an exciting plan. We designed an educational facility where children with vision loss could explore, develop skills, and build confidence in a safe, interactive and accessible emirronment."

rears recurred a ractive map at the entrance to his mentally map the outdoor space, a looped pathwa to give children the opportunity to develop their o skills a wlonkone and a sound banch Leadership Development program, Leading Teams for High Performance.

During Leading Teams, McFee says she had a chance to present the Outdoor Classroom plans to her learning group. If gained more confidence about how to communicate a plan to our national office, highlighting the benefits and outcomes to the organization. I (labo) learned about staying focused, connecting with my own sense of values, and leading others with both pursons and passion."

The national office gave McFee the nod of approval to go shead with the project.

Fee and her project team then secured additional rtners in addition to Urban Systems, including WestJet. e tasks expanded, from creating a fundraising strategy panizing volunteers.

learned about facilitating a new team that involved

or nonprofit organizations to be competitive and successful ou need to be innovative and mobilize every sector of ociety."

On October 8, 2008 McFee's shared vision became a reality and the CNIB Outdoor Classroom officially opened. The most memorable moment for McFee was watching several of the young children with vision loss engaged in play with the many components of the Outdoor Classroom.

"One very small child stood quietly – head bowed, eyes closed, tiny hands grasping onto the smooth xylophone bers – enjoying the calming vibrations of sound as his father

McFee says she is grateful for the support she has received along her 10-year learning journey, one made possible thanks to the generosity of others. "It happened because of the Centru's scholarships for non-profit leaders and I want to consens are sufficient or the support of the centru's scholarships for non-profit leaders and I want to

