

# Assistive Technology Faire - 2019

This 7th Annual Assistive Technology Faire will provide an opportunity for students and community members to get an up-close look at a variety of devices and learn about available services. Users of assistive technology products as well as small companies and agencies serving individuals with disabilities and older adults will bring assistive technology devices to display, demonstrate, and discuss.

Sample questions to ask vendors:

What problem does the device or service address?  
Who benefits from its use?  
How many potential users are there?  
How is your device or service better than others?

What design / development process was pursued?  
How many prototypes were made before commercialization?  
How do you advertise your products or services?  
Are your products covered by insurance or Medicare?



## Digital Accelerator Ring and the Main Hand Brake

Kempf - Martine Kempf

The Digital Accelerator Ring and the Main Hand Brake (DARIOS) are hand controls that can be installed on most cars with automatic transmissions to allow a person who has lost the use of both legs to drive with both hands on the steering wheel.

## Project Invent Club

East Palo Alto Academy - Aaron Ragsdale & James M. Wang

East Palo Alto Academy (EPAA) is collaborating with Project Invent and StreetCode Academy to explore engineering and design thinking for social good. Students will be demonstrating a prototype of a solution they created for their community partner, Abigayil Tamara, a mobility-impaired Mountain View resident who requires an eight-foot wheelchair ramp to get in and out of her Toyota van. The proximity sensing sign beeps and lights up when an object comes within a certain distance, discouraging drivers from parking too close to the side of her van and consequently blocking her van access.



## BikeAround

Camanio Care - Agneta Rosenberg

Camanio Care BikeAround is a memory-care therapy program which consists of a stationary bike paired with Google Street View, benefitting older adults with cognitive disabilities and those who just want to stay active. BikeAround is an aid for cognitive, physical, and mental activity for people experiencing dementia and brain injury. It's used for rehabilitation, memory care, and reminiscence therapy.



## The Easy Easel

The Easy Easel - Danny & Stanford Stickney

The Easy Easel was a team project in last year's course that explored ways to enhance creative expression for Danny.



## Travonde

Travonde - Tina Choi

Travonde is a leisure and entertainment platform built to connect older adults and their families. We enable better living by creating a community to serve the habits and desires of baby boomers, personalized through AI and machine learning. We believe everyone deserves a rich and fulfilling life, no matter the age or ability.



## Ogo Evolution 1

Ogo Technology - Walter Delson

"The Evolution 1 is the first Ogo in the Evolution series. Designed and built with the best safety and the most unique features of any self-balancing personal transportation device. The powerful two-wheeled self-balancing platform means you travel over uneven terrain, scale inclines and navigate troughs, while always remaining level in your seat - giving you access to places such as beaches, forests, tracks and pathways that would be impossible for most other personal mobility devices. It comes in a standard set up that fits through standard doorways and will take you most places, but by changing to the additional Off-Road Kit, you can go almost anywhere - tackling soft sand, gravel, and rough terrains and inclines with minimal impact on the flora and delicate surfaces. It is smaller, lighter, and faster than most other powered mobility devices."





### **Humm Edge**

Humm - Ahmud Auleear

The Edge headband uses transcranial alternating current stimulation (tACS) to improve working memory by 19%. We believe that Edge would enable older adults to increase their quality of life and improve their memory.



### **Assistive Gripping Wrist Brace**

Kevin Supakkul

The Assistive Gripping Wrist Brace was an independent study student project that addressed the gripping challenges affecting over 3 million US citizens who have hand and wrist ailments including, but not limited to carpal tunnel syndrome.



### **ADAPTS Portable Transfer Sling**

ADAPTS - Robin Wearley & Krystina Jackson

ADAPTS is a portable transfer sling for use during travel or for emergency evacuations. It is flame-retardant and water-resistant, folds into an 11"x 11" travel tote, and weighs less than a pound. Learn about our #WhyWait campaign for disaster preparedness through our spokesperson, Krystina Jackson, Ms Wheelchair California 2018.



### **BeeLine Reader**

BeeLine Reader, Inc - Nick Lum

BeeLine Reader is a software tool that improves reading ability by displaying text using a color gradient that wraps from the end of one line to the beginning of the next. This gradient pulls the reader's eyes through the text, making reading easier. This approach is especially helpful for readers with dyslexia, ADHD, and various vision impairments.



### **Dance4Healing Tele-exercise Live Video Platform**

Dance4Healing - Amy Li

Dance4Healing is a tele-exercise live video platform leading telehealth into physical rehabilitation, bringing community support, exercise, and fun to home care. Inspired by founder Amy Li's stage IV cancer journey, our mission is to alleviate mental and physical pain and reduce medical costs. Rooted in neuroscience and published medical studies, our social platform connects dance teachers, clinicians, chronic patients, care-partners, elders, and healthy users. We use artificial intelligence and behavior design to provide and recommend personalized music, dance, buddies, and groups; use feedback from patient monitoring to record progress; and suggest follow-on therapies.



### **Ability Tools Device Lending Library**

Silicon Valley Independent Living Center - Joe Escalante

Silicon Valley Independent Living Center (SVILC) is a cross-disability, intergenerational, and multicultural disability justice organization that creates fully inclusive communities that value the dignity, equality, freedom and worth of every human being. SVILC maintains a lending library of assistive technology so consumers may borrow a device free of charge and try it before buying it, use it to compare similar devices, or to use while a personal device is being repaired.



### **RoScooter**

ROTA Mobility - Michelle Koller

ROTA Mobility creates innovative exercise mobility products which their riders "ro-to-go" for better health and well-being. The RoScooter uses a self-propelling PSM (Power Steering Module) featuring CLD (Central Lever Drive) bicycle-style steering, gearing, and braking, enabling riders to exercise by simply going places. The RoChair has the same PSM as the RoScooter, but in a lightweight chair frame, allowing those who cannot use RoScooter, the same efficient manual propulsion to very quickly and easily get around, indoors and out.



### **IndeeLift - The Human Floor Lift**

Al Corce & Weldon Moreland COO

IndeeLift has developed a line of human floor lifts that are specifically designed to pick people up safely from the floor. The products address the growing need to help people up from the floor, avoiding further injury to the fallen or those who care for them. They are designed to lift people to a normal chair height allowing them to stand or transfer with the least amount of effort.



### **Verily Liftware**

Summer Si, Liftware Associate Program Manager and Michael Magdaleno

Liftware's selection of stabilizing and leveling handles and utensil attachments are designed to help people with hand tremor or limited hand and arm mobility retain dignity, confidence, and independence. Liftware Steady is designed to help people with hand tremor, which may be related to Parkinson's disease or essential tremor, while Liftware Level is designed to help people with limited hand and arm mobility, which may be related to cerebral palsy, spinal cord injury, Huntington's disease, or post-stroke deficits.



### **Disrupt Disability**

Rachael Wallach, Founder and CEO

Disrupt Disability created Wheelwear, a modular wheelchair that can be continually customized to its user's changing body, environment, and individual style.



### **GUSTO by KW**

Krystina Jackson

GUSTO designs and sells accessories for manual and power wheelchairs. The company seeks to elevate the wheelchair experience by creating fresh, gorgeous accessories that give users options to express their individual style.



### **Canine Partners for Life**

Abigayil Tamara & Service Dog Nathan and

Edward Crane & Service Dog Alepo

Canine Partners for Life (CPL) of Cochransville, PA trains and places service dogs with individuals with disabilities - including those who require alerts due to diabetic, cardiac, or seizure conditions - to increase their independence and quality of life. CPL is a non-profit organization, operating completely on donations, and charges recipients only a small fraction of the actual cost (\$30,000) of training a dog (2 years).



### **Service Dog Tutor**

Service Dog Tutor - Jean Cary and Service Dog Flicka

Service Dog Tutor teaches clients' own dogs to perform specific service tasks for their owners. Clients include older adults and children who have mobility and balance challenges as well as cognitive disabilities.

## **Perspectives in Assistive Technology**

<http://enr110.stanford.edu>

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