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Community Design Challenge

Bernard Timmins

Technological University Dublin, bernard.timmins@tudublin.ie

Dublin Institute of Technology

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students learning with communities



Students Learning with Communities

Community Design Challenge



Assistive Technology

Is the name given to devices that help people with physical disabilities.

Problem:

These devices can be bland, bulky and don't help as much as they could.

Community Design Challenge:

Five physically disabled members of the community have been given a design brief :

Create a design that would solve a frustrating day-to-day activity?

Student participation:

Students were required to collaborate with the community partners to generate a design and create an A2 poster explaining their design.

How:

During 2 afternoons 3-6pm (1st March and the 5th of April) five teams generated a design concept and an A2 poster.

Teams had 5 members on average.



Community Design Challenge

2011 Community Designs

CONEKT

About
Working with a wheelchair can be very difficult to come up with a design that allows for ease of use from its intended user. The problem is generally addressed by modifying or growing out the legs, requiring and time-consuming for most people.

The best design for the CONEKT, a system which allows for a person to be easily attached to the wheelchair. It is designed to allow for ease of turning and not to hinder the wheelchair user while going over a bump or curve. The design uses the optimal amount of parts and components of standardized units allowing for the product to be inexpensive.

Extendability
Based on the same design, an individual who uses the arms are able to extend and retract to allow for expansion or contraction of wheelchair taking a similar system if it also able to do this but typically as an add-on product.

Movement
The arms are able to move up and down to allow for bumps or ripples under traveling.

Calish
The design came from the locking mechanism used for wheelchair ramps, hinges, or superlatiks. The cone locks into the playing part where the top parts of the wheelchair and to allow the wheel to move on the ground. The locking mechanism is spring loaded, using magnets to allow anyone and anyone to lock into place. The cone is substituted to prevent slipping.

Benefits
Stead and sturdy wheel-act to use very good value due to the use of standardized parts.
Simple to attach to both the front and rear wheel.

Safety Sensors

The sensor fits inside the foot housing. The sensor housing is designed to fit around the foot on ground. Whenever it is placed it can be used with most shoes. It simply pushes together.

A cable is run over the top of the foot to the cable or track as it connects to the light.

The light is attached to the end of the small using device which allows it to glow with the sensor. Whenever it is placed it can be used with most shoes. It simply pushes together.

bobbie

COMMUNITY DESIGN CHALLENGE 2011

PROBLEM
The problem is that many people have difficulty with their hands. They are unable to grip things properly, which makes it difficult for them to perform tasks that require a firm grip.

DESIGN
The design is a pair of gloves that are made of a soft, stretchy material. They have a textured surface that provides extra grip. The gloves are also made of a breathable material, so they are comfortable to wear.

FEATURES
The gloves are made of a soft, stretchy material. They have a textured surface that provides extra grip. The gloves are also made of a breathable material, so they are comfortable to wear.

THE SOLUTION
The solution is a pair of gloves that are made of a soft, stretchy material. They have a textured surface that provides extra grip. The gloves are also made of a breathable material, so they are comfortable to wear.

Ingroci-sanna

This app is a direct response to a problem which was brought to us through "Share Ideas". Many people with visual impairments struggle to get their groceries when the packaging for many products isn't the best.

We created the Ingroci-sanna app to help people with visual impairments to get their groceries. The app uses a camera to scan the product and then provides information about the product including the name, price, and place of purchase. The app also provides information about the product including the name, price, and place of purchase. The app also provides information about the product including the name, price, and place of purchase.

Effortless

Tablet Dispenser

A tablet dispenser for 1000 USD
SAVE DISCOUNT WITH INNOVATION

Ergonomic Shape
Bite Release
Mouthpiece
Dispenser

Simply release dispenser on start of day. Press release button on side of device to get tablets into your Chamber, insert into mouth, and give us release medication.

