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Corner Breaker

Window breaker is a lifesaving tool that provides an escape opening when car accidents happen. A serious drawback of window breakers, however, is that they might not be consistently located across different vehicles, making it difficult for people to find and apply them quickly in case of emergency. There are also other problems, such as people's unfamiliarity with the way window breakers work, elders and children might not have enough strength to break the window with the breaker.

Student from the Graduate Institute of Innovation and Design at Taipei Tech, Pei-chih Teng, said around 40 percent of public bus drivers in Taiwan lock their vehicles' emergency hammers (window breakers) so that they will not be stolen by passengers. In this case, the breakers, potentially lifesaving devices, are entirely removed and put out of use. In view of such potential hazards, Teng and his classmates, Chiu Kai-hsin, Chang Keng-tzu, and Yang Chu-ting are inspired to invent and create the "Corner Breaker". "Corner Breaker" is not just easy to use, but also triggers an alert when it is touched by mistake.

By simply pulling the handle and then release it, the elasticity of the recoiling spring provides the pressure to break the window. "Saving lives in a safe, efficient and energy-saving way" were the principles that guide the creation of the "Corner Breaker," the team said in their presentation of the device.

"Corner Breaker" was awarded Honorable Mention in the Red Dot Award for Design Concept 2015.

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Wonderland Museum

Located in Taichung Fengyuan, the approximately 66,000 square meter Yuen Fong Yu's abandoned paper factory is scheduled to be transformed into a wooden museum, following the architectural blueprints laid out by Ren Ping Song and You Gia Chang, students from the Department of Industrial Design at Taipei Tech.

3 major areas are planned for the "Wonderland Museum": Natural Lobby, Material Transforming Space, Muyishi's (the word literally

means wooden consciousness) Adventure. The design of Wonderland Museum aims to stimulate visitors' senses including sight, hearing, touch, smell, and taste in order to draw them into exploring the energy of wood crafts and appreciate their roles as art in life.

The "Wonderland Museum" was awarded Honorable Mention in the Red Dot Award for Design Concept 2015.

U-pants

Many long-term care patients have to carry a urine bag with them when going about their daily chores. The urine bags are a source of embarrassment and often prevent patients from going outdoors as the urine bag is exposed and seen by everyone. In attempt to redress this issue, the Department of Industrial Design at Taipei Tech cooperated with the Taipei Veterans General Hospital to develop "U-pants", a pair of specially designed pants that keeps the urine bag inside the pants and out of sight of onlookers. "U-pants" look just like any normal pants from the outside.

Designed by Jun Qi Wu, Bo Ren Yang, Guan Hao Pan, Jun Yi Chang, and He Lu Su, students from the Department of Industrial Design, "U-pants" was awarded Bronze in Industrial Design Excellence Award and Design Concept in Red Dot Award 2015.

Eric Fan, associate professor from the Department of Industrial Design at Taipei Tech, notes that patient can change the urine bag if it got dirty. A zipper on the side of the pants allows the wearer to get in and out of the trousers with ease.

The volume of the "U-pants" is 750 cc., and it has a marked scale that enables patients to check on the volume anytime.

Mao Chang Chen, head of the nursing department at Taipei Veterans General Hospital Su-Ao & Yuanshan Branch, notes that among the 2000 beds in the hospital, 1000 of them are long-term care beds. With the present urine bag design, patients would rather stay in bed instead of leaving their rooms. After trying the "U-pants" for a while, many patients are more willing to go out of their rooms and even venture to convenience stores nearby.



CITY SCOOTER

Provides the daily
usage for the locals.



City Scooter

"City Scooter" was designed by Zhu Ting Yang and Pei Zhi Teng, students from the Graduate Institute of Innovation and Design at Taipei Tech, for city commuters such as office workers, community residents and tourists. Combining the concept of Taipei U-bike and a scooter, the "City Scooter" has the advantages of a light body and high stability in low speed that allows users go anywhere in the city. Users can pedal to store power and top up a prepaid card or deducting from a prepaid card to draw the stored power.

"City Scooter" was awarded Honorable Mention in the Red Dot Award for Design Concept 2015.

1 for 2 Public Locker

In public spaces such as airports and train stations, lockers are made available for passengers to secure their stuff temporarily. Lockers came in different sizes, but they do not always allow for efficiency of space usage. The "1 for 2 Public Locker" was designed to address this problem.

Xue Wui Zhong, student from the Graduate Institute of Innovation and Design at Taipei Tech, designed a locker that allows users to adjust locker's volume and pay accordingly. Cleverly using different light indicators, people can see the remaining space in lockers from the handle to find the most suitably sized locker for their belongings. For example, if the light shows green, it means the locker still has plenty of room. If a locker is empty, users can adjust the dividing board in the middle of the locker by pushing and pulling, to get the ideal volume. Users will be charged by the space they use. Users can pay by swiping their credit card or Easy Card.

The "1 for 2 Public Locker" was awarded Honorable Mention in the Red Dot Award for Design Concept 2015.



Air-conditioner Whale

As global warming gets worse, usage of air conditioner surge in South Asia, Africa and countries around the equator. Air conditioners consume vast amounts of electricity and release more carbon dioxide, which contribute to the acceleration of global warming.

During operation, air conditioners produce a lot of water through dehumidifying and condensing the air inside. The water produced by air conditioner is relatively clean, and simply getting rid of it is wasteful. Adopting a simple design theory of "one gram of mist being evaporated naturally can reduce 539 Kcal," the "Air-conditioner Whale" designed by Pei-chih Teng, student from the Graduate Institute of Innovation and Design at Taipei Tech, collects and re-filters the water produced from the air conditioner. After collecting water, the "Air-conditioner Whale" will transform it into mist. And by spraying mists to cool down the temperature in a room, it will greatly reduce the electricity consumption of the "fast cooling" function in a room that just turned on the air-conditioner.

Air conditioner also acts as a dehumidifier, which causes users who stay in air-conditioned offices or living spaces feeling dry and uncomfortable. "Air-conditioner Whale" detects the humidity of the space and sprays mists to maintain optimal humidity when air condition is on, allowing maximum comfort and efficient use of energy.

The "Air-conditioner Whale" was awarded Final List in Industrial Design Excellence Award and Winner in Red Dot Award for Design Concept 2015.



Music Companion

"Music Companion," designed by Chuang Yun Cheng, student from the Graduate Institute of Innovation and Design at Taipei Tech, is a speaker with a built-in directional speaker and detection device. When a user is detected, the "Music Companion" will play music toward the user's direction while the sensor tracker on the speaker will rotate to face the user's position. In other words, no matter where you are at home engaging in any activity, the "Music Companion" can always play music around you, like a singer singing gently in your ears. Even in a multi-people environment, the "Music Companion" allows you to enjoy music without interfering others tranquility. The "Music Companion" can greatly enhance a family's living quality through its smart control of sounds. The "Music Companion" was awarded Honorable Mention in the Red Dot Award for Design Concept 2015.

Music Companion



Directional speaker

Tracker

Music following people
Just for your own
Enhance the quality of life



Wish you have a great day ahead,

A handwritten signature in black ink, reading "Wenlung Li". The signature is written in a cursive, flowing style.

President

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