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Taipei Tech Designing for an Aging Society

According to the Council for Economic Planning and Development, Taiwan will soon be an aging society in 2018. Among all the possible issues that might accompany this trend, health care is one of the biggest concerns that need to be addressed.

As a university that values technological skills, research and development, students from Taipei Tech readily engage in challenges and have come up with many fabulous ideas in preparation for the inevitable increase in aging population.

From a fall-proof shoe-pad that warns the user prior to tumbling to a feet-controlled basket that relieves elderly people from the discomfort of bending their waists; from a Cognitive Test System app that could detect the degree of cognitive degeneration for seniors to a health bracelet, named "Circle of Life," that could detect the user's blood sugar without inserting a needle in the finger. Taipei Tech students continue to surprise the world with their creativity and practicality in research and development.

The Cognitive Test System app was designed by Zong Rong Xin, Yu You Liu, Yong Jia Wang and Bo Xiang Huang from the Department of Electrical Engineering. The purpose of this app is to evaluate personal cognitive capacity through simple games. For the elderly, they could keep track of their performance and watch out for signs of degeneration. This app won the 1st place in National Taiwan Ocean University (NTOU) Campus Mobile APP Contest.

"Cognitive Test System" app and its designers: Zong Rong Xin (辛宗融), Yu You Liu (劉裕佑), Yong Jia Wang (王永佳), Bo Xiang Huang (黃柏翔)

The "Circle of Life" was designed by Jia Yu Ye and Yi Xiang Lin. For patients who suffer from diabetes, both measuring blood sugar with needles and insulin injections cause great physical discomfort and psychological stress. "Circle of Life" is a stylish bracelet with a chip that could detect blood sugar and micro-needle insulin patched in. Wearing the "Circle of Life" enables people to monitor their blood sugar at ease, and more importantly, without pain.

Doctors in hospitals could check on their patients anytime for its inbuilt mechanism uploads all the data to cloud. This device was awarded the Silver Award in the 2015 Great-Design Contest.

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Taipei Tech Shines at NMUN 2015

The National Model United Nations 2015 (NMUN 2015) was held on March 22 (EST) in New York. The team of Taipei Tech includes 14 elite students from 7 countries. They played the role of Swaziland representative and competed with students from over 500 different universities from across the globe.

Taipei Tech team had 6 months of intensive training before the big event. During their training, team members discussed various international issues and honed their ability to analyze international situations.

Taipei Tech also had the honor of inviting former Swaziland Embassy officials to share their experience with the team members.

During the NMUN conference, Taipei Tech representatives showed a lot of outstanding qualities that received high praise from the judging committee. Team members grasped every opportunity to speak, formed alliance with other schools successfully, and showed the spirit of a great team.

With their extraordinary performance, the team of Taipei Tech was awarded the Honorable Mentioned Delegation. Two of Taipei Tech's student representatives in the United Nations Children's Fund (UNICEF), Ming Yan Hu and Ebrima Nyassi, were voted as Outstanding Representatives. Also, 4 other students in the team were elected to be the Pagers in their committee to take the responsibility of relaying important information while promoting Taiwan at the same time.

Taipei Tech team at the NMUN 201

Team Instructor Xiu Yu Chen

The team learned a lot from the NMUN 2015. One of the students, Ming Yan Hu, said she learned more about the educational situations and problems in Mainland China and the importance of education in reducing disease as well as solving the problems of poverty and promoting human rights.

Besides preparing for the NMUN 2015, the team also participated in the Island Model United Nations Youth 2014 (IMUN 2014). Their superior performance garnered 3 awards, including the Best Representative Award and the Best Oral Performance Award.

Taipei Tech's Dean of Academic Affairs, Zheng Jie Yu, notes that Taipei Tech put much effort in cultivating and advancing students' global outlook. And it is delightful to see improved performance from Taipei Tech students each year at the NMUN. Taipei Tech will continue to encourage students to think globally. In order to boost the understanding and involvement of the students in international affairs, Taipei Tech will invite the awarded team to share their experience with fellow classmates and set up a student club to promote global awareness on campus as well.

Taipei City Mayor Wen-je Ko (middle) and Taipei Tech President Leehter Yao (third from the left) attended the ceremony

Taipei Tech and Taipei City Government Join Hands to Build a Vibrant High-Tech Business District

Taipei Tech and Taipei City Government join hands to establish the DaBaDe High-Tech Business District Alliance on April 8, 2015. Wen-je Ko, mayor of Taipei City, also attended and witnessed the establishment ceremony.

Future plans for development of the DaBaDe High-Technology Business District include local landmarks such as HuaShan 1914 Creative Park, Taipei Brewery, Guang Hua computer market, and Taipei Tech. Sparks between culture, technology, and creativity of young people are expected in the future.

Located in the axes of Taipei, Taipei Tech has both the location and expertise to assist in integrating community resources, boosting area development, and shaping district features.

As the provider of industrial and research manpower, Taipei Tech strives to connect at a deeper level with the community by applying the school's knowledge and experience in the areas of technology, entrepreneurship, cultural and creative industry, and ecology.

As Taiwan's most historical training ground for entrepreneurs, Taipei Tech continues to lead as a business incubator and a leading institute of higher learning in technological innovation and research. Taipei Tech has always contributed actively to the community, installing designing technology galleries in the neighborhood, building open laboratories, cultivating research and development human resources, etc.

Collaboration between industry and academia has always been emphasized in the culture of Taipei Tech. Taipei Tech encourages students to work as interns and learn practical skills via direct participation in relevant industries. To give an example, a student from the Department of Design could choose to be an intern at the nearby HuaShan 1914 Creative Park. "Beyond the campus classrooms, it has always been a unique trait of Taipei Tech culture to connect ourselves to the land and the society of Taiwan." said Taipei Tech President Leehter Yao. The cooperation with Taipei City government brought Taipei Tech's efforts to help develop and grow with the community to a whole new level.

In addition to student participation in business, Taipei Tech also provides assistance to those who want to start a business on campus. Bringing together the resources of its teachers, students, and alumni, Taipei Tech Developing Corporation is founded as a company to raise funds, evaluate the viability of business projects, as well as increasing the profits of school patents. In addition to Taipei Tech Developing Corporation, "i-foundry" is established with the aim to provide various aids in the forms of technological know-how, experience sharing, professional skills, funds, mentor training, and matchmaking, to those who want to set up a new business.

Schematic drawing of DaBaDe Development Plan

Taipei Tech's Award Winning Designs

"Vive," designed by Jun Qi Wu (吳芮綺)

Taipei Tech has endeavored to cultivate advanced and skilled design professionals so as to meet the need of global and local economic development. In 2015, the Design Department of Taipei Tech won the 2nd place of "Enterprises' Most Favorable Designers" surveyed by the 30 Magazine.

With the full support from Taipei Tech, students from the Design Department show their talent and creativity in various aspects. The following examples are the achievements Love Guide Condoms, designed by Guan Hao Pan, was intended to increase the use of condoms by improving the suitability, usage, and accessibility of condoms. First, in order to prevent customers from picking the wrong size, Pan made the package size the same as the condom, i.e. by holding the box of the product, customers could know whether it is of the right size for them. Second, customers could easily distinguish the front from the back of the condom just by opening the container. This reduces the risk of misusage and broken rate of condoms. On top of that, these condoms are sold in vending machines for those who don't want to purchase condoms in stores.

"Vive," a kitchen waste bucket designed by Jun Qi Wu, makes recycling easier. "Vive" is a disposable mycelium package, which accelerates the decomposition process of kitchen waste to become fluid fertilizer. "Vive" is also equipped with a container that collects fluid fertilizer.

"Love Guide Condoms," designed by Guan Hao Pan (潘冠豪)

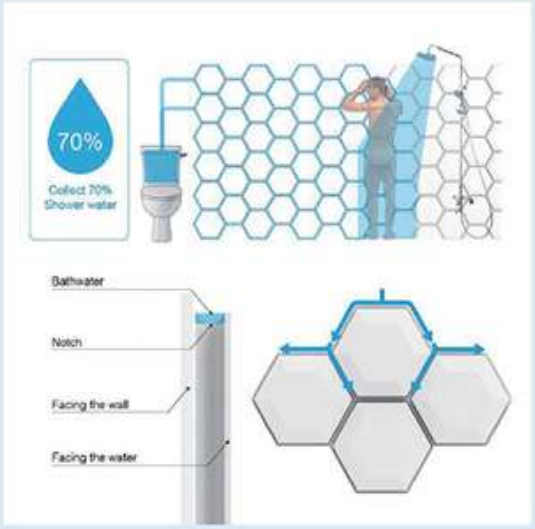
"Public Lock," designed by Yan Ling Chen(陳彥伶)

Both Love Guide Condom and "Vive" were awarded the merit award in the udn Design Award 2015.

Among 12,000 pieces of design work, only 7 pieces won the Haier design prize in the iF Design Award in Germany, 2015. And Catchment Wall was one of it. Designed by Guo Gun Zeng, Hong Bo Ou Yang, Li Shuan Zhu, and Chang Ru Wu, Catchment Wall recycles waste water during showers and reuses it to flush toilets. By using hexagon tiles, the water would go straight to the floor and be collected.

Public Lock, designed by Yan Ling Chen, was awarded the silver award in the 8th Unecc Applied Design Award. As a backpacker, Chen came up with the idea of using fingerprints to create a temporary lock for luggage, which could save travelers a lot of troubles, such as dragging suitcases from one place to another.

All these award-winning designs demonstrate the creativity and vitality of Taipei Tech as well as the intention to improve people's daily life.



"Catchment Wall," designed by Guo Jun Zeng(曾郭鈞), Hong Bo Ou Yang (歐陽宏柏), Li Xuan Zhu (朱立軒), and Chang Ru Wu (吳昌儒)