

ENGINEERUS

Circulation: 42,000

School of Engineering newsletter • Issue 44 • July 2014

**Direct
Polytechnic
Admission
(DPA)**

**What are
the benefits?
P2**

**How to
get your
Pilot's
Licence
P4**

COVER STORY

**She means
business**

P13

**Solve
a puzzle
& WIN a
thumb-drive!
P11**



Temasek
POLYTECHNIC

EDUCATION Spotlight

Mention getting into a polytechnic, and most secondary school students will think of the Joint Admissions Exercise (JAE) held in January each year.

Many do not realise that they can actually get in through the Direct Poly Admission (DPA) exercise, or have misconceptions about it.

ENGINEERRUS gives you the low-down on the DPA:



What is the DPA?

The DPA is an admission exercise held in July each year, that allows you to secure a place in the course and the polytechnic of your choice even before your 'O' level exams. This means you do not have to worry about applying during the JAE.

What is the benefit of DPA?

The main benefit is that you can secure a place in a particular diploma regardless of whether your eventual 'O' level aggregate meets the Last Aggregate Score (LAS), formerly known as the Cut-off Point (COP), of that diploma course. This is provided your aggregate does not exceed 26 points (the maximum aggregate to qualify for any polytechnic), and you meet any other entry requirements such as passing your Maths.

This benefit is priceless, especially for the highly popular diploma courses which tend to have very demanding LAS each year.

What are the criteria for getting a DPA place?

You will be assessed based on your secondary school academic results, such as the Sec 4 mid year exams and school continual assessment. You will also be required to attend an interview, during which you will be assessed on your attitude and aptitude for the course, knowledge of the field of study that you are applying for, inherent talent, and other personal qualities. Testimonials and portfolios will be useful.

Do I have to undergo any pre-training?

Yes, successful DPA applicants need to undergo and pass an 8-week Poly Preparatory Programme (PPP), held before the actual Poly semester begins.

Do I have to pay for this PPP?

Yes, you need to pay a nominal fee of \$150 (Singapore citizens), \$300 (PRs) or \$500 (foreign students).

What if I fail to get a DPA place?

You can still apply through the normal JAE route in January the following year.

If I get a DPA offer, can I reject it?

Yes. But once you have rejected it, you cannot change your mind. You will then have to apply via the normal JAE route after you get your 'O' level results.

If I reject a DPA offer, will it affect my JAE chances in any way?

No, the DPA has no bearing on the JAE. Your chances of getting into a particular course at the JAE will still be equal to that of any other JAE applicant.

Is it possible to get a DPA offer from both my 1st and 2nd choice courses?

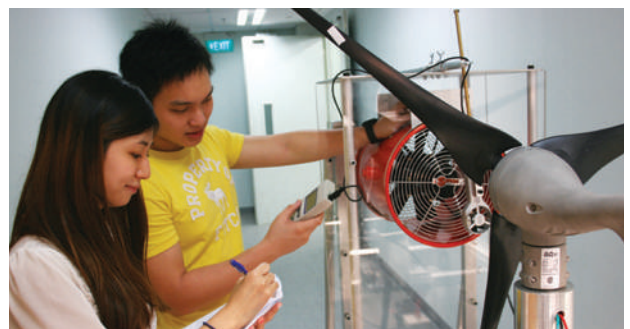
It is possible to get called up for an interview by more than one Polytechnic, but ultimately, you will only receive one offer of a place. So you should keep this in mind when you make your three choices on the DPA application form.

What will I learn in the PPP?

You will receive an all-rounded learning experience that prepares you academically, hones your leadership skills, and when you take Cross-Disciplinary Subjects, allows you to chalk up advanced credits for your actual diploma course.

What if I fail my PPP?

This has never happened before. You are advised to think positively, do your part in the PPP, and you will certainly pass ☺.



Polytechnic education offers practice-oriented training that is highly valued by employers today

Were you here?...

Hundreds of secondary school students visited TP's School of Engineering where they toured the facilities, attended workshops to pick up Engineering-related skill-sets, and had a fun time learning. Were you one of them?

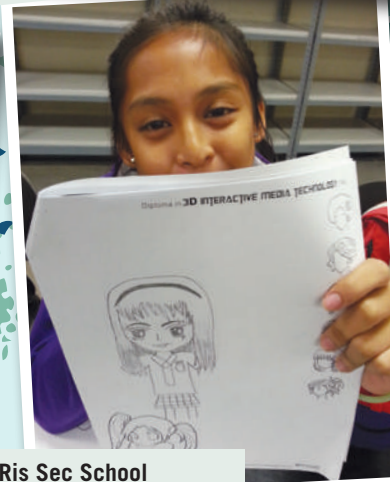
Zhonghua Sec School

(Visit to Biomedical Engineering Research Centre & Microelectronics Centre, 14 Mar '14)



Changkat Changi Sec School

("Running Man" workshop, 14 Mar '14)



Pasir Ris Sec School

("Be a Manga Artist" workshop, 23 May '14)



DPA Orientation

(12 Jul '14)

DO YOU WANT “WINGS” TO FLY?



Some of our SYFC graduates with their training aircraft, the Diamond DA40

If you are interested in learning to fly an aircraft, then why not do it during your diploma course, at a fraction of the cost?

That was what eighteen students from the School of Engineering have done under a unique arrangement between the Singapore Youth Flying Club (SYFC) and Temasek Polytechnic.

These students went through “ground school” where they learnt the theory of flying, before taking to the skies with an instructor and eventually flying solo. They completed 10 simulator flights, 46 air flights and passed 6 ground exams as well as a proficiency test in aircraft handling and safe landings – all within a gruelling one year period.

These students received their Private Pilot Licence (PPL) at an SYFC graduation ceremony held on 3 May '14.

This special flying programme is open to suitable students from the Diploma in Aviation Management & Services, the Diploma in Aerospace Engineering and the Diploma in Aerospace Electronics at Temasek Polytechnic.

GOT A MEMORY PROBLEM?

Do you forget things very often? If you do, obviously you have a memory problem. Now there's hope for you:

This electronic game developed by three students from the Diploma in Electronics promises to sharpen your memory in a fun way. The game tests your memory and ability to recognise shapes and patterns using pieces of a jigsaw puzzle, each tagged with an RFID (radio frequency) transponder to provide feedback when it is scanned on a reader.

This project won a Bronze award in the national Assistive & Rehabilitation Technology Students' (A&RTS) Challenge held on 22 Mar '14.



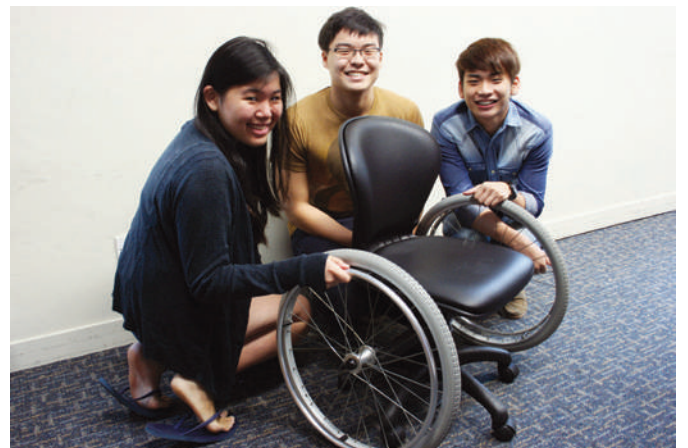
Our memory boosters (from left): Shi Yu, An Ya and Zhi Qi

Smart Office Wheelchair

Another project, the “Smart Office Wheelchair”, functions as a wheelchair outdoors but turns into an office chair indoors. The detachable wheels just need to be clipped on or off, enabling a wheelchair user to toggle it according to his needs.

This invention, by three students from the Diploma in Business Process & Systems Engineering, earned a Merit award in the same competition.

In all, our Engineering students won 2 Silver, 1 Bronze and 3 Merit awards, plus a Best Presentation award at the competition – the most awards among 37 competing teams.



Our wheelchair specialists (from left): Daphne, Darren and Jun Hong

BUSINESS-RELEVANT DIPLOMA

In testimony to the quality and relevance of their Business Process & Systems Engineering (BZE) diploma course, a team of five BZE students won the 1st Runner-up position (\$10,000 cash) – one of only 2 top prizes awarded – in the annual Business Venture Challenge (Open Category) of the Start-Up @ Singapore competition, beating more than 150 formidable teams from the ASEAN region, India, and Europe.

The final-year BZE students pitched their business concept involving the design, production and sale of elderly friendly products, namely the “H-frame”, which is an enhanced walking stick that can be extended into a walking frame.



The BZE quintet (front row) with their winning product

The products, which are tailored to meet the specific needs of a growing silver market in Singapore and enhance the quality of life for the elderly, are currently in process of being commercialised.

The competition, which serves as a platform to help local entrepreneurs to transition from paper to product, was organised by the NUS Entrepreneurship Society and held on 31 May '14.

ROBOTICS SUPERIORITY

Robots designed by our Engineering students captured a Gold and 2 Bronze awards plus a Commendation award, at the annual Singapore Robotic Games held on 22 & 23 Jan '14.

The solitary but hugely satisfying Gold came from “TP Hulk”, the Polytechnic’s intelligent robot and the strongest fort in TP’s arsenal of robots.

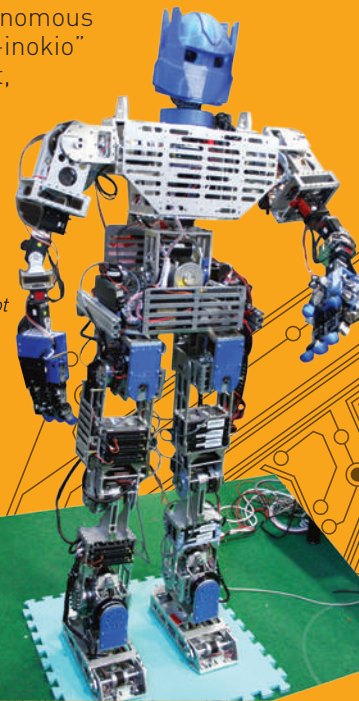


The victorious TP students with their project supervisors

Temasek Polytechnic’s continuous dominance in the “Intelligent Robot” category is testimony to its strength in robotics and the highly advanced research & development work that staff and students do in its Robotics & Automation Centre on campus.

The Bronze awards came from “Hamster” the autonomous Sumo robot, and “TP-inokio” the humanoid robot, while “The Unsinkable”, a radio-controlled Sumo robot, narrowly avoided being sunk by taking home a Commendation award.

The “TP-inokio” robot



FLYING HIGH WITH THEIR MACHINES



The new competition record holder, "Team Vortex"

Aerospace students from Temasek Polytechnic demonstrated their aerospace knowledge and flying skill once again by winning 2 Gold and 3 Bronze awards, plus a Special Recognition Award in the annual Singapore Amazing Flying Machine competition held on 20 Mar '14.

One of the Gold awards came from "Team Alae", which the judges decided had the "Best Presentation". The team also won the Special Recognition Award for the original design of their flying machine, which was completely hand-made from scratch using composite materials specially customised to enhance performance.



The highly original "Team Alae"

In addition, "Team Vortex" achieved a new Games record for the "Semi-Autonomous" category, steering their flying machine through the course with a time of 29 secs, beating the all-time competition record of 39 secs for the same obstacle track – which was in fact made more difficult this year with the addition of a new moving obstacle.

HELP FOR THOSE IN NEED

Two projects which help the elderly and those with special needs have won recognition at the annual IES Design Award competition 2014.



Gap-Crossing Wheelchair

Wheelchair bound patients and their caregivers will now have an easier time moving about, thanks to a new invention by three Mechatronics students.

The unique wheelchair comes with an extra pair of extendable arms with wheels at the front, allowing the wheelchair to cross gaps of up to 30cm wide. When the wheelchair user is confronted by a drain, the extended arms roll across the gap first, transferring the weight of the wheelchair to the front. The rest of the wheelchair can then glide weightlessly across the gap.



Body Balance Coaching App

Another project, the "Body Balance Coaching App" invented by two students from the Diploma in Infocomm & Network Engineering, is an Android app for patients with difficulty in maintaining their balance. When the mobile phone is strapped to the patient's waist, it detects whether he is standing upright or swaying. The results are captured and presented graphically to the user in real time, or can be retrieved remotely from a cloud server by physiotherapists.

The wheelchair project won a Merit award, while the mobile app took the Gold at the annual IES Design Award competition held on 29 Mar '14.

SHALL WE TAKE A SELFIE?

With Selfies all the rage today, a team of six students hit upon the business idea of providing professional studio photography at public events – an idea which they executed at the YOUTHphoria carnival held on 28 Jun '14 at the Singapore Discovery Centre as part of the Youth Entrepreneurs Competition.

With a live Spiderman model as a photo prop, their photo booth turned out to be a hit among the many students and kids at the carnival, helping the team to win the Silver award in the competition.

Besides the amount of money they raised, participants were judged based on their booth design, voting by visitors to the booth and via Facebook, as well as a 5-minute presentation and a 30-second sales pitch to judges.

The six final year students, who were from the Diploma in Business Process & Systems Engineering and Diploma in Electronics (Business option), have demonstrated their ability to put theory into practice, while gaining – first hand – a priceless entrepreneurial experience.



The Selfie experts with their booth posters



A mother and child getting their photo taken at the photo booth during the carnival

OUR PRODUCTIVE STUDENTS

Three of our Engineering students clinched the Silver award in the Productivity Challenge held on 22 Mar '14.

One of them, Yeo Ming Hui, also emerged "Individual Champion" for topping the Industry Knowledge Quiz.

The students, from the Diploma in Business Process & Systems Engineering (BZE), analysed a problem and proposed solutions for a company facing productivity challenges on 3 fronts, namely, Human Resource (unmotivated staff, low productivity and high turnover), Finance (high utility bills and high overtime wages) and Production Operations (bottleneck in workflow and low productivity).

The students' outstanding performance demonstrates their ability to apply the knowledge and skill-sets acquired from their diploma course, as well as the effectiveness and relevance of their BZE curriculum in solving real life issues faced by companies today.

The competition was organised by the Singapore Innovation & Productivity Institute (SiPi), a subsidiary of the Singapore Manufacturing Federation.



The productivity experts from BZE, with their supervisor



The BZE team presenting their solutions to the panel of judges

Graduation 2014



About 1,500 Engineering students received their diplomas over 5 graduation ceremonies held on 27 & 28 May '14 at Temasek Polytechnic's Convention Centre. Congratulations to all graduates!



TOP GUNS

Featuring three of our students who won the highest honour at Graduation 2014.

FLYING HIGH

Muhammad Faias is the first-ever Lee Kuan Yew award winner to graduate with a Private Pilot Licence (PPL), which he obtained as part of his Aviation Management & Services diploma course at Temasek Polytechnic (TP).

Coping brilliantly with the academic demands of his course, the concurrent rigorous flying lessons at the Singapore Youth Flying Club, as well as the strenuous training schedule as a member of the TP Triathlon Team, Faias notched up a perfect cumulative grade point average (CGPA) of 4.0 – a successful comeback for a young man who had felt that his world collapsed when his father passed away suddenly just before his 'O' level exams in 2010.



Faias (left) with his Form Teacher at St Gabriel's Sec School, Mr Joshua Leong



Lee Yee is thankful to her secondary school teachers, Mr Lek Gim Chye (Form Teacher) and Mrs Jay Pillai (English), for her achievement

THE GUYS DON'T GET IT

Proving that girls can do as well as guys in the male-dominated aerospace field, **Ee Lee Yee** chalked up a CGPA of 3.9 for her Diploma in Aerospace Electronics course, clinching the All Round Excellence Award.

This former student of Siglap Sec School was a livewire outside the classroom: she was Vice President of the TP Salvo Drums group, as well as its group leader, trainer, choreographer and performing artist.

NEVER TOO LATE

Playful and averse to studying during his primary school days, **Quek Kai Yu** found himself in the Normal Technical stream at Dunman Sec School, before joining ITE. Inspired by his teachers at ITE, he worked hard and made it into the Diploma in Infocomm & Network Engineering course at TP, where he blossomed and truly excelled, scoring a CGPA of 3.97.



Kai Yu with his inspirational ITE teachers, Ms Eunice Thong (Computer Applications) and Mr Eric Low (Maths)

PASSION TO SERVE

“Ask not what others can do for you, but what you can do for others”. Living by this mantra, **Neo Jie Xin**, 23, has made a mark in the School of Engineering – both as a student and as a staff member.

Graduating with a Diploma in Integrated Facility Management in 2012, she chose to rejoin Temasek Polytechnic as a Management Support Officer. “My main goal is to give back to future students and help to ensure that they benefit from the rich student experience which our school provides, the way I have benefited as a student,” she explains.

As a student, Jie Xin was President of the “Love Initiative From Engineering (LIFE)”, the school’s interest group which coordinates community activities for its students through charitable organisations including nEbO, the youth arm of NTUC.

Seamlessly working with nEbO over the past 3 years, first as a participant, then a leader, and now a staff advisor, she was recognised for her contribution with the “nEbO Alumni Award” and a prize of \$100 in April 2014.

Modestly shrugging off the award, she quips: “More important is the passion to serve the less privileged in any way we can”.

Jie Xin receiving the nEbO Alumni Award from Minister Lim Swee Say at a presentation ceremony on 12 Apr '14



Flashback: Jie Xin as a student, with fellow LIFE members in 2012



THE MAN WITH A DIFFERENCE

Spotting a punk-rock hairstyle, different shoes on each foot, and bright orange pants, he might be mistaken for a rock artiste. But he is no rocker.

Lawrence Koh Choon Teck is the author and illustrator of the bestseller, *Growing Up With Lee Kuan Yew*, which is a simplified biography of the former Minister Mentor, presented in a light-hearted comics style. It tells the story of Lee Kuan Yew’s growing up years – covering his childhood, the Japanese occupation, courtship and romance, political career, and milestone events in Singapore’s history. The updated version of the book, launched in June 2014, adds 60 new pages and includes a segment on the passing of his wife, Mrs Lee.

“Younger generations of Singaporeans may grow up not knowing who Lee Kuan Yew is. History books make very heavy reading for children, so I decided to come up with this book,” explained Lawrence.

The talented Visual Communications graduate from the Nanyang Academy of Fine Arts and former freelance illustrator now teaches students of the Diploma in 3D Interactive Media Technology at Temasek Polytechnic.

It took him more than 2 years to complete the book. “I had a lot of time to work on my book because I do not watch Korean drama at home,” joked the trendy 41-year-old.

POPULAR



\$3

\$3 off purchase price of the book *Growing Up With Lee Kuan Yew* when you present this coupon at any Popular Bookstore in Singapore.

(UP: \$21.90)
(not valid with other promotions)

Valid till: 31 Oct 2014.

TP'S GOT TALENT!



Lionel Richie & the Commodores



Carlos Santana

Who ever said that only America's Got Talent?

Students from the Diploma in Green Building & Sustainability (GBS) showcased their talent (sans celeb judges Howie Mandel and Simon Cowell, but never mind!) at the annual GBS Music Fiesta, code-named "Artitude", held at the campus' Auditorium 3 on 8 May '14.

Performances by 15 budding contestants, as well as a special guest appearance by a dance group got about 250 GBS students and lecturers all hyped up, some standing up to dance, some bouncing in their seats.

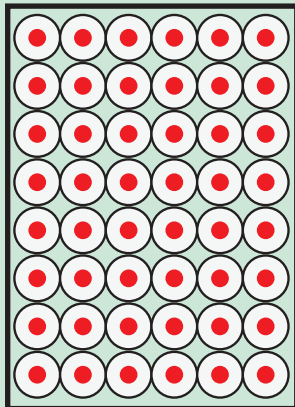
Second year GBS student, Glenda Tay, still reeling from the experience, exclaimed: "It was awesome, I never knew we had such talent in our midst! It was really great watching the performers, we could sense their effort and feel their passion!"

Another member of the audience, final year student Sharon Tan, felt equally enthused: "They really have talent sia... I admire their confidence and their courage to perform in front of a live audience. Now I'm gonna take up guitar lessons and form a band. Wait, you watch me next year!" she warned.

FIGURE IT OUT... AND WIN A LIMITED EDITION WOODEN THUMB-DRIVE



There is a crate packed tightly with 48 identical wine bottles. Diagram shows the top view where the red dots are the bottles' corks. How many extra bottles can you add into the crate if you were to re-pack it?



This contest is open to secondary school and ITE students only. Email your answers, with name, school, and HP number, to: cheeseng@tp.edu.sg with the subject title, "Engineer Maths Puzzle 7".

The first 10 correct entries drawn after the closing date (31 December 2014) will each win a limited edition hand-crafted wooden thumb-drive.

ANSWER TO QUIZ #6

There are many possible answers:

(0, 2, 3) ⊗ (4, 6, 9)

(0, 2, 6) ⊗ (1, 3, 9)

(0, 3, 6) ⊗ (1, 2, 4)

(0, 3, 6) ⊗ (2, 4, 8)

Winners:

Beatrice Leow (Crescent Girls'), Christopher Wong (Bedok South), Elijah Goh (Yuan Ching), Hu Pengchao (Maris Stella High), Karent Finnartha (Bartley), Kho Xi Yuan (Hua Yi), Leong Kai Ling (Presbyterian High), Mark Lim (Kent Ridge), Li Xuan Wee (Queenstown), Lu Xiaoying (Whitley), Muhd Hariz B Azman (Zhenghua), Nicholas Cheng (Pei Hwa), Rachel Lee (CHIJ St Nicholas), Ronn Aldwin Ariston (Bishan Park), Siti Syarah (Swiss Cottage), Ten Ju Zheng (Chung Cheng High), Tiffany Sia Chong (Methodist Girls'), Tommy Hadinata (Bedok Green), Wong Shu Yee (First Toa Payoh), WYsen Seng (Hai Sing Catholic).

WELCOME TO OUR WORLD

Thousands of students were welcomed to the TP world during the annual Freshman Orientation held from 15 – 17 Apr '14.

Besides academic briefings and introduction to campus facilities, the freshmen took part in telematch games, bonding activities, cheering fights and the prestigious Temasek Regatta – a dragon boat competition in which the strongest hunks and most energetic babes from each school maxed out their toned muscles to power their boats to the finishing line in the fastest time.

ENG Team	Position
Girls (Freshies)	1st
Girls (Seniors)	1st
Boys (Freshies)	1st
Boys (Seniors)	2nd
Staff Team	2nd
Overall	Gold



Exemplifying the Engineering School spirit



Fun and games



Our golden girls



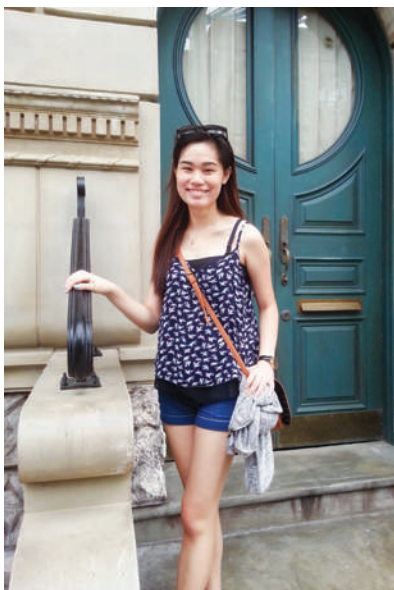
Our hunky guys



United by their passion



LIKE MOTHER, LIKE DAUGHTER



Si Hui dressing chic during a day out

Taking a diploma course allows you to gain knowledge and skill-sets which will benefit your future career or further studies. But, as final year student **Fu Si Hui** will attest, it may also benefit your mother.

The 19-year-old student from the Diploma in Business Process & Systems Engineering (BZE) not only applies what she has learnt in the running of her online clothing store, but she has also passed

on her business knowledge to her mother, Mdm Ang, who runs a brick and mortar shop selling classic ladies apparel at Bedok Reservoir Road.

"I taught mummy the Supply Chain Management concept so that she can better manage her supplies, as well as some of the marketing strategies which I learnt in school, such as customer loyalty programmes. In addition, she used to take ages to record her daily sales and sometimes has problems balancing her account. So I developed a Microsoft Excel spreadsheet which automatically does all the calculations for her," explains the enterprising former student of Springfield Sec School.

Si Hui herself runs *Pefetto Boutique*, an online store selling trendy ladies clothes and accessories which she set up during her second year in BZE. "I usually bring in the type of clothes which I would personally wear. Just in case I can't sell them, I can wear them myself!" she beams. So judging from her tasteful dress sense, you can be assured of the quality of the clothes sold in her website!

Needless to say, Si Hui's diploma training has helped her to run her own online business as well. "My BZE course has helped me in keeping track of my supplies and financial management. I also apply the pricing strategies I learnt, such as taking into account the currency exchange rate, because most of my supplies are sourced from overseas," she elaborates.

Of course, there is often no substitute for experience. Having been in the retail clothing business for 30 years, Si Hui's mother, Mdm Ang, 59, has this advice for aspiring young entrepreneurs: "In business, it is always better to earn less than not to earn anything at all."

Quote "**Pefetto15**" to get 10% off your next online purchase at *Pefetto Boutique*: (<https://carousell.co/pefettoboutique/>). Valid till: 31 Dec 2014.



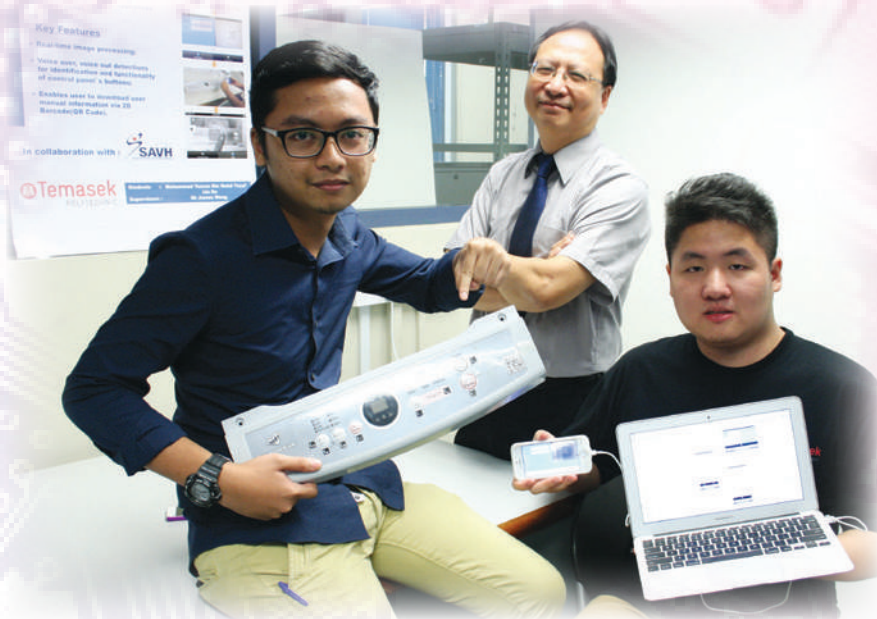
20%

off any purchase at
Mei Wing Fashion

Blk 630, Bedok Reservoir Road,
#01-38, Singapore 470630.

Valid till: 31 Dec 2014.

THE i-GUIDE



The app inventors, Yusran and Yu Xu, with their supervisor James Wong

With the advancement in technology and manufacturers competing to pack more and more features into a single device, consumers – particularly the less tech-savvy and elderly – are finding it more and more challenging to operate their home appliances.

Realising this problem, two students from the Diploma in Media & Communication Technology have invented the “i-Guide” – an Augmented Reality (AR) application which helps the elderly or visually impaired to operate their home appliances easily and independently.

A user first installs a camera app from Apple Store into his mobile device. Next, he then scans the QR code printed on the appliance using his mobile phone, to download the User’s Manual. The mobile device is now ready for use.

Confronted by confusing control buttons on the appliance, the user simply switches on his camera phone, trains it on the control panel, and places his finger over each button on the panel. The function of that button is then automatically read out aloud by the mobile phone. If it is the correct function that he wants, the user then proceeds to press that button.

How it works

The algorithm for the app is written with a development tool called X-Code, which uses the Objective-C program language. Each control button on the appliance is mapped to an AR code in the database using coordinates. Round buttons are defined using radius, while square buttons are defined using their length and width dimensions.

When a user places his finger over a button, the app detects the finger using an image processor, and then proceeds to retrieve the function and instructions for that particular button from the database which it had previously downloaded. The message is then sent to the phone’s external speakers and broadcast aloud.

This app is currently available only for iPhones, but an Android version is being developed.



QR code-equipped appliances may soon become the norm



The app detecting a finger

SECRET FORMULA FOR SUCCESS

Did you know that graduates from the Diploma in Green Building & Services (GBS) can enrol directly into the final year of the Building Services Engineering degree programme at Northumbria University, UK, and graduate with an Honours degree in 2 years?

One diploma holder who benefited from this arrangement with Northumbria University is **Gorman Wong Keng Woon**, who graduated from Temasek Polytechnic (TP) in 2000.

Slightly worried at first about how he was going to cope by enrolling directly into the final year of his degree programme, Gorman's fears were put to rest when he started his course at Northumbria. "I found that my diploma from Temasek Poly gave me the foundation which I needed for university, particularly in the area of building services and air conditioning engineering. So I had already covered much of what would have been taught in the first 2 years at university," explains the former student of Tampines Sec School.

His degree from Northumbria University has taken him far and wide since then. Deciding to gain overseas exposure, he worked 4 years in Scotland as an Engineer at Buro Happold Ltd, an engineering consultancy firm, where he managed projects related to building

infrastructure and the environment, before being transferred to Hong Kong.

But home is where the heart is, so Gorman decided to return to Singapore to sink his roots here after 5 fruitful years overseas. "I had to return to Singapore upon the orders of Her Majesty (my mum)," jokes Gorman.

Now a Senior Mechanical Engineer with DSCO Group Pte Ltd, Gorman supervises building and critical systems engineering projects. "I find that the knowledge and highly transferable skill-sets which I acquired from my diploma course at TP have remained relevant till today," he acknowledges.

Asked for his most memorable incident in TP, Gorman gets excited. "One of my diploma mates discovered a health supplement that could improve our memory and enhance our mental focus. Studying for exams has never been the same for us after we took this supplement!" he recalls.



Gorman (arrowed) with his Buro Happold colleagues in Edinburgh, Scotland



With his wife, Bernice, at Victoria Harbour, Hong Kong



Blast from the past: Gorman (arrowed) with his classmates during their Project Show

WORLDS APART FROM THE REST

Our Engineering students clinched 2 Gold, 1 Silver and 2 Bronze awards in the various trade categories of the biennial WorldSkills Singapore (WSS) competition, held from 10 – 12 Jul '14.

The WSS is a prestigious competition symbolising the pinnacle of excellence in vocational training. Participants from schools, tertiary institutions and the industry compete in various trade categories and test themselves against demanding international standards.

Bryan Phang Ying Xian, from the Diploma in Aerospace Engineering, one of our Gold winners, will represent Singapore in the "Aircraft Maintenance" category at the international WorldSkills finals to be held in São Paulo, Brazil, in August 2015.



Bryan Phang (with medal) and his Aircraft Maintenance team with their coaches

CATEGORY	NAME	AWARD	DIPLOMA COURSE
Aircraft Maintenance	Bryan Phang Ying Xian	Gold	Aerospace Engineering
Mobile Robotics (Team)	Md Zulqarnain Bin Ramlan	Gold	Computer Engineering
	Lim Jing Qiang		Computer Engineering
Electronics	Ng Yin Zhi	Silver	Electronics
	Koh Chin Woon	Bronze	Computer Engineering
Mechatronics (Team)	Melvin Soh Yong Sheng	Bronze	Mechatronics
	Lee Zhong Yu Reon		Mechatronics

ENGINEERING DIPLOMA COURSES @ TP



- 3D Interactive Media Technology
- Aerospace Electronics
- Aerospace Engineering
- Aviation Management & Services
- Biomedical Engineering
- Business Process & Systems Engineering
- Clean Energy
- Computer Engineering
- Electronics
- Green Building & Sustainability
- Infocomm & Network Engineering
- Integrated Facility Management
- Mechatronics
- Media & Communication Technology
- Microelectronics

SPECIAL PROGRAMMES

- Common Engineering Programme
- Electrical & Electronic Engineering Programme
- Mechatronics & Aerospace Programme

COURSE ENQUIRIES

Tel: 6780-5144 • Email: enghotline@tp.edu.sg
 Website: www.tp.edu.sg/eng • Facebook: www.facebook.com/TP.Engineering
 YouTube: www.youtube.com/TPEngSch

Editor: Edwin Loo / Outreach Marketing Executive: Angela Cheong / Email: engineerrus@tp.edu.sg

*Join us as student journalists or photographers!
 Training will be provided. For enquiries, please email: engineerrus@tp.edu.sg*