

IGNITE



Be Inspired.

ISSUE #2 | January 2021

“BEHIND THE SCENE”

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the new staff
on board?*

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NOTES FROM THE EDITOR



Ng Yan Ting
AAS/ENG
EDITOR

Hello everyone! My name is Yan Ting from the ENG Academic & Administrative Support Team. This is the second issue of IGNITE and I am truly honored to have the opportunity to work on this magazine.

In this issue, we wish to bring you some fun facts, interesting insights and happenings in ENG school. We feature stories of our current students, alumni and staff who have joined our big ENG family in the recent months. The Chinese Lunar New Year is just around the corner and we have some special recommendations on how you can decorate your home the 2021 way.

A special thanks to our BZE alumni, Darren Loy, for sharing with us his new found talent which he picked up during the circuit break period.

A huge shout-out to our staff from ENG General Office (Mr Muhammad Asyran & Mdm Yong Ying Ping) and staff from the Robotic Automation Centre (RAC), Mr Yeo Chau Tiong for agreeing to share with us their daily work activity in School of Engineering. We hope our readers will have a better understanding of what our non-academic staff and centre staff are working on everyday.

I would also love to take this opportunity to specially thank my colleague, Katherine, Rajah the first editor, Fairuz Abdul Rahman and my team member, Mr Edwin Loo for their continuous support on this magazine.

Not forgetting my fellow readers, thank you.

fun facts. about ENG

ENG STARTED WITH ONLY 7 STAFF MEMBERS

Back in the 90s, Temasek Polytechnic School of Engineering first started with only 7 staff members and 160 engineering students with only 2 active Diploma courses. By 1995, the school moved to its permanent campus in Tampines, the student population grew to 2,240. Today, our student population is more than 5,500 and over 350 staff members.



TEMASEK REGATTA CHAMPION!



ENG holds the fort as Champion for 6 consecutive years in Temasek Regatta, a dragon boat rowing competition held during the annual Freshman Orientation at Bedok Reservoir. The most happening event where cheers and songs filled the air and some of the best friendship was created.

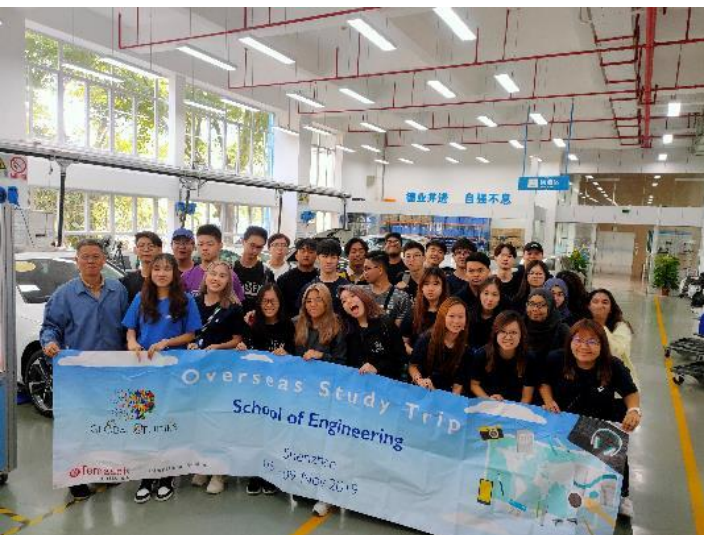
fun facts. about ENG

A \$30 MILLION TEMASEK AVIATION ACADEMY



Yes, a \$30 million Temasek Aviation Academy (TAA), launched officially on 8 Jan 2016. One of Singapore's largest aviation/aerospace training facilities. The million dollar facility features a training hanger that houses the Hawker 700 business jet, training both full-time and part-time diploma students. The TAA aims to meet the manpower needs in the growing aviation industry.

PLENTY OF ANY TRAVEL OPPORTUNITIES



ENG students are given plenty of opportunities to travel overseas with their peers. Overseas study trips allow students to experience cultural differences and understand global industry trends and techniques that will be beneficial to their learning curves in education. Furthermore, students are able to participate and render their assistance in third-world country such as Cambodia, Vietnam and Laos and hone their leadership and stress management skills at the same time. In 2019, we have over 580 ENG graduands participated in Overseas Study Trip.



The strong essence of pandan waffles can be sniffed out from a mile away. It is almost impossible not to grab a piece of waffle from there. All the waffles come out warm and soft with the outer layer just a little crunchy. From breads, salad bowl, sandwiches and soup, you can find a wide range of healthier food to choose from to satisfy everyone's taste buds. A highly recommended place to go to if you are looking for a delicious and healthier mid-day snack.

TRIPLETS

FOODilicious

One of the most affordable western dishes in TP. The basic mains like Chicken Chop, Chicken Cutlet and Fish & Chips are going at only \$3.00. The generous serving amount serving is definitely worth every penny. According to the stall owner, our TP students love their mains to go with additional rice and scramble eggs. You can simply order that by saying "Chop, Dan, Fan" (Chicken Chop, Egg and Rice), the friendly auntie will get your order right away. Not forgetting the next best seller, the spicy nuggets and spicy fries. Try it yourself to feel the bomb.

WESTERN @
SHORT CIRCUIT



The most popular stall in Design School canteen. From fried to grill, salad to pasta, burgers to sandwiches, this stall offers a wide variety of food. Do expect extremely long queues during lunch hours but not to worry, it moves pretty fast. The wide selection of unique combination sauce brings the dish to the next level. One of the best choices among diners is the Nacho Cheese and Mushroom Cream Sauce, drizzled over a piece of deep-fried chicken, gives you a naturally sweet and cheesy flavour on the meat. Start your meal with the Clam Chowder or Mushroom Soup, you will not regret it.



SAM'S GRILL @ DESIGNER PAD

FOODilicious



BISTRO LAB

There is always space for dessert right? Bistro Lab is the best place to visit to satisfy your sweet tooth. The Lab is managed by the Centre for Applied Nutrition Services under the School of Applied Science. Serving both Western and Asian cuisines, the cafeteria features a new menu on a weekly basis. Aiming to promote a balanced diet and a healthier choice for consumers, the cakes, tarts, muffins and cookies are all low in sugar. Whether you are looking for a sweet, sour or fruity flavour, you name it, they have it. A sweet treat is the ultimate finale to complete your meal.

WHAT'S UP

ALUMNI



My name is Darren Loy and I graduated from TP in 2015 from the Diploma in Business Process & Systems Engineering. I am currently studying in SUSS, Bachelor's degree majoring in English with Business.

During the Circuit Breaker, I was really bored at home and decided to learn to solve the Rubik's Cube. The Rubik's Cube was originally invented by architecture professor, Ernő Rubik in 1974 as a teaching tool for students to visualize spatial concepts. The fastest official time for a 3x3 cube to be solved is 3.47s, in comparison, the fastest Singaporean cuber took 5.50s to solve the cube.

For beginners, don't be intimidated by the cube and learn things step by step. There are many wonderful videos on YouTube that make it easy for anyone to learn cubing, and many other tutorials that teach you on how to level up.

Here is a video of me solving a rubik's cube in 22 secs.

<https://tinyurl.com/y6eqgmc4>

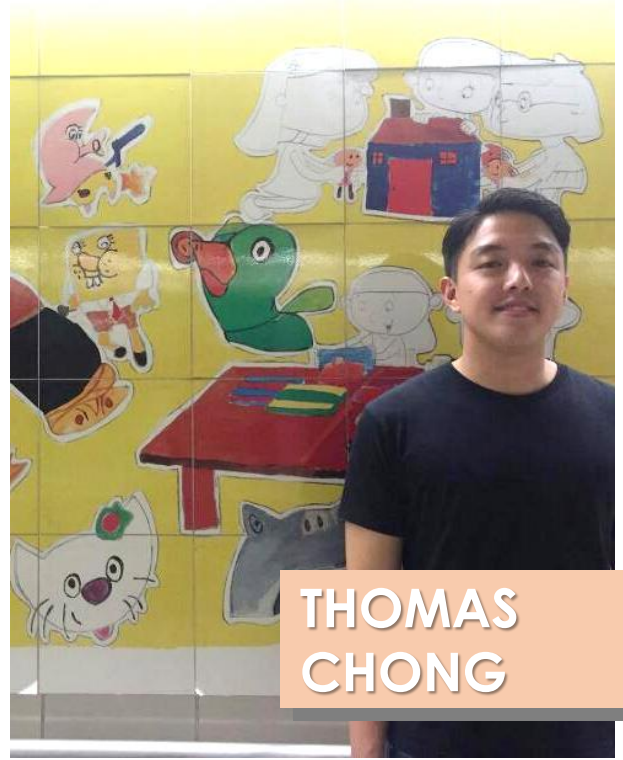
NEW CREW ON BOARD!



LIM NA

Lim Na joined TP in mid-September 2020 as an Engineer in CERC (Clean Energy Research Centre). This is her first full-time job. During her free time, she would play the ukulele, do some painting and arts.

“Other than the tedious paperwork, working in ENG/CERC is pretty good so far. I like it that I get to work with people of different ages; the experienced and knowledgeable colleagues, and the youthful students.



THOMAS
CHONG

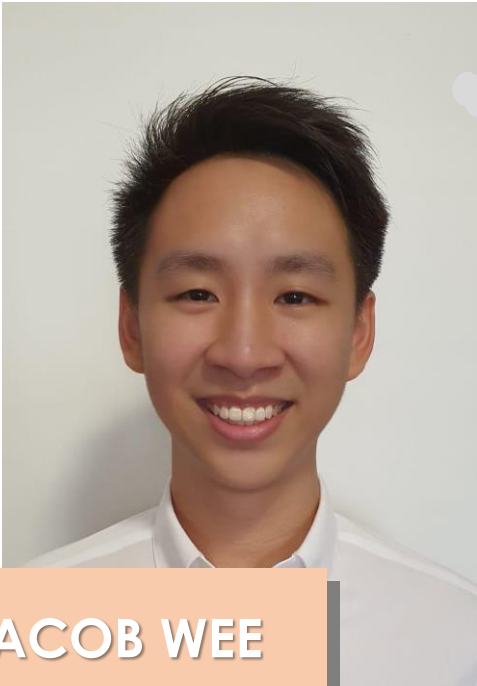
Thomas joined TP in July 2020 as a lecturer in the Diploma in Business Process and Systems Engineering (BZE). Mainly in the Logistic and Supply Chain industry, his past working experiences were at *Geodis Wilson*, *Schneider Electric* and *DB Schenker*.

Thomas visits the gym often and enjoys playing badminton with his friends occasionally. He is now into playing Chess after watching a new series on Netflix, *Queen's Gambit*.

“Teaching in TP so far has been very fulfilling yet challenging at the same time, I am grateful to be able to connect to the students on many levels as I was once in their shoe, once a graduate from BZE. “

NEW CREW ON BOARD!

welcome



JACOB WEE

Jacob joined CERC (Clean Energy Research Centre) as a Research Engineer in August 2020, a fresh graduate from NUS. His hobbies include playing sports such as tennis.

“Working in ENG so far has been a great experience and everyone here is warm and friendly. Looking forward to more events and facilities opening as we move forward into Phase 3.”



QIU SHIYUN

Shiyun joined TP in August 2020 as a lecturer in the Diploma in Business Process and Systems Engineering (BZE). She used to work for Micron & Global Foundries for 5 years and then for SIA Engineering Company & Thales for 8 years. Shiyun enjoys cooking, watching Netflix, browsing YouTube channels and doing yoga.

“Teaching has been quite interesting for me, dealing with different stakeholders & assimilating into TP culture. I am able to share what I know with students, interact with students and able to explore and learn new things.”

NEW CREW ON BOARD!



WONG TECK YONG

Teck Yong joined TP in June 2020 as a lecturer in the Diploma in Architectural Technology and Building Services (ABS). He used to work at CPG Consultants Pte Ltd for around 9 years.

"I like to swim. A daily dip in the pool can relieve stress, keeps me in shape and improves endurance.

I enjoy working with all my colleagues around me. Their support, encouragement and guidance have helped me to grow and improve greatly."



TAN WEI NIAN

Wei Nian joined TP in Oct 2020 as a lecturer in the Diploma in Aerospace Engineering. He was in the Aerospace Industry for 9 years. Before joining TP, his first job was working for Singapore Airlines dealing with the technical aspect of the Aircraft (Aircraft Cabin and Structures) and right before he joined TP, he was working for Civil Aviation Authority of Singapore (CAAS) dealing with foreign operators.

"I have hobbies that are suited for indoors and outdoors! For outdoors, I do some photography including drone photography and for indoors, I usually fix up modelling kits like Gundam plastic kit.

Teaching in TP has been good so far probably because I am blessed with good year 1 students!"

welcome

NEW CREW ON BOARD!

welcome



ADRIAN HENG

Adrian joined TP in Oct 2020 as a lecturer in the Diploma in Electronics. Before he joined TP, he was in the semiconductor industry (KLA Corporation) for the past 15 years. During his free time, Adrian enjoys jogging and playing soccer.

"It's been enriching so far to interact with the students and helpful colleagues who give good advice in my transition."

OTHER NEW STAFF ON BOARD:

Mr Pasan Bhashitha De Silva
Lecturer / EMS

Mr Daryl Lim Stze Hwow
Lecturer / MTN

Mr Tan Eng Kiam
Lecturer / AEL

Mr Lim Qingwei
Senior Lecturer / AMS

Mr Frederick G Matibag
Lecturer / TPAMC

Mr Lucas Liu Yu
Lecturer / ELN

Mr Surendra Batukdeo
Senior Lecturer / CEN

Mr Mark Khoo Tai Hock
Senior Manager/AMC

COOL INVENTION!

Gesture Controlled Car



Let us have a peep at Final Year Project “Gesture Controlled Car” done by 3 students from the Diploma in Mechatronics, Sreeroop, Yadav and Adith, supervised by Dr Tanusree. Gesture recognition using an accelerometer is an emerging technique for gesture-based interaction.

This project aimed to program and develop a hand gesture-based recognition kit which include a smart glove, a gesture-controlled car game, a gesture data visualization program, a wireless data transmission system and a working prototype of a gesture-controlled car.

A total of 4 gesture patterns: Front, Back, Right and Left can be recognized to build an interactive gesture recognition system. Isn't that cool? The project won them a Merit Award. Well done and congratulations to them!

Let's watch a video on the “Gesture Controlled Car”.

<https://tinyurl.com/1u5ojjd6>



*Sreeroop, Yadav, Adith and their supervisor
Dr Tanusree with their Final Year Project
“Gesture Controlled Car”.*

OPERATIONS IN ENGINEERING GENERAL OFFICE



You probably would have passed by this office every time you walked into ENG school. Let's be honest, you have at least looked into the reflection once just to check your outfit or fix your hair. Just for your information, we can see you! Let us find out more from Mr Asyran and Mdm Yong on how they operate ENG General Office, especially during this challenging period.



WHAT IS THE MAIN ROLE IN ENG GO?

Our main role is to provide counter/frontline service support to our customers. We have served a wide range of customers, mainly are the students, parents, staff and members of public. We also manage the daily dispatch of mails to our colleagues in ENG. The ENG hotline and email enquires are handled by ENG GO as well.

OTHER THAN THE MAIN ROLE, WHAT OTHER TASK IS ENG GO HANDLING?

ENG GO process student MC LOA online applications daily and process student claim applications on an ad-hoc basis. Occasionally, we provide service support to school events and operations.

OPERATIONS IN ENGINEERING GENERAL OFFICE



WHAT WOULD YOU SAY HAS BEEN THE MOST CHALLENGING SITUATION YOU AND YOUR TEAM HAVE ENCOUNTERED IN ENG GO? AND HOW DID YOU AND YOUR TEAM OVERCOME IT?

The most challenging situation would be how Covid-19 has impacted and changed ENG GO's daily operational work and the new expectations of our customers. We had to adapt physical processes/forms into online procedures. So as to remain relevant to the changing landscape, we also had to come up with new ways to reach our customers.

Higher expectation of customers. Over the years, we have worked hard to improve our service awareness in order to manage customers better. Where more time is taken to manage each customers' needs.

In managing ENG School's frontline service, solving our customers' queries, involves further support from our other ENG colleagues, eg our Teaching Staffs & also other Support Staffs. We are truly grateful that our ENG colleagues have been very helpful whenever we turn to them for further advice and assistance to manage our customers' requests. Together with their support, we frequently overcame and solved many challenging requests.



*Mr Muhammad Asyran and
Mdm Yong Ying Ping, our
frontline heroes at School of
Engineering, ENG GO.*

OPERATIONS IN ROBOTIC & AUTOMATION CENTRE (RAC)

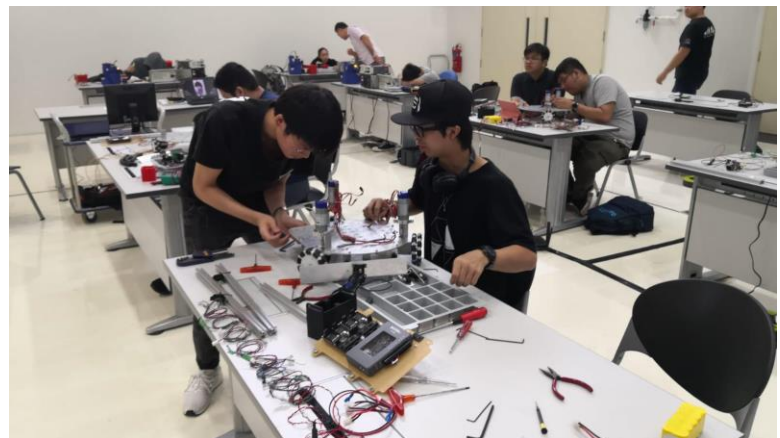
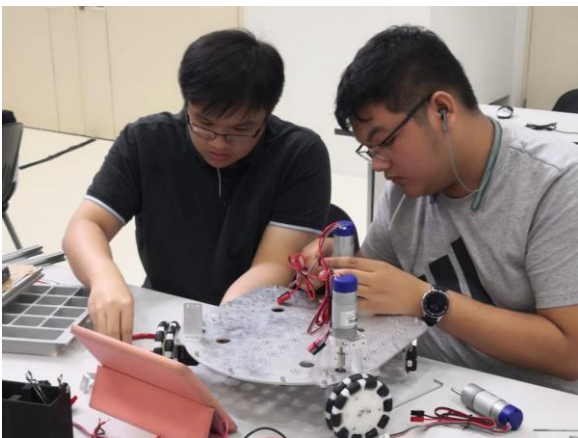


WHAT IS THE MAIN ROLE OF RAC?

The main roles of RAC are to work on industrial and internal research and development projects in the areas of robotics and automation and to train adult learners and full time students (in the form of major projects and student internships) using knowledge garnered from the industrial and research and development projects. RAC also trains students to take part in robotics-related projects like the Singapore Robotic Games and WorldSkills Singapore - Mobile Robotics Trade.

WHAT ARE THE KEY TECHNOLOGIES THAT RAC HANDLES?

The key technologies that RAC handles are Robotics and Industrial Automation. In recent years, we work extensively in the area of Autonomous Mobile Robots and the enabling technologies related to the development and deployment of Autonomous Mobile Robots like autonomous navigation, sensors, robotic arms applications, machine learning etc.



OPERATIONS IN **ROBOTIC & AUTOMATION CENTRE (RAC)**

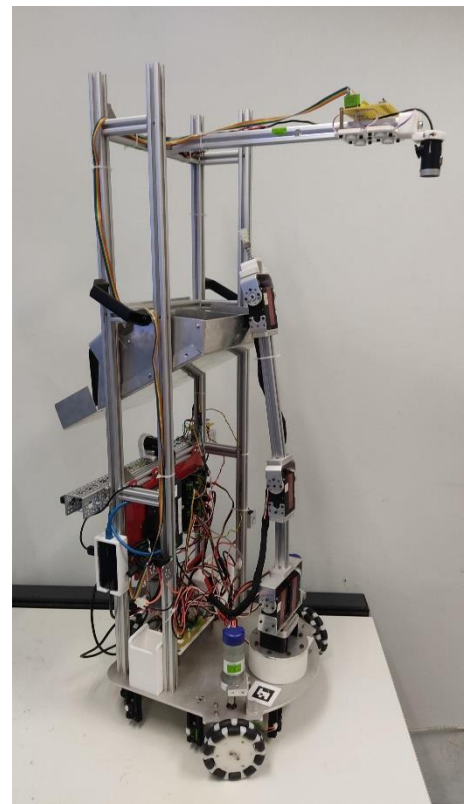


Our WSS competition Mobile Robotics team won Gold & Silver recently. (Congratulations!) What was RAC's role in preparing the teams, and what is the secret of your success?

Staff from RAC work together with the student competitors to design and build the competition robot to meet the competition objectives and in accordance to the competition rules and regulations. RAC also trains the students in the assembly, disassembly and usage of the competition robots and prepare the students for the competition together with the Chief Coach (Mr Kang Liat Chuan / Common Engineering Programme) and Expert (Mr Tan Tai Suan / Electronics Diploma).

WHAT WOULD YOU SAY HAS BEEN THE MOST CHALLENGING SITUATION YOU AND YOUR TEAM HAVE ENCOUNTERED IN RAC? AND HOW DID YOU AND YOUR TEAM OVERCOME IT?

One key component which RAC brought to the table which contributed to TP success was our experience and know-how from developing mobile robots for industrial applications and internal research and developments projects. We were able to introduce new technologies to the competition robots like a robotic arm, the newly introduced Raspberry Pi 4 and computer vision techniques etc which gave us an edge in the competition.



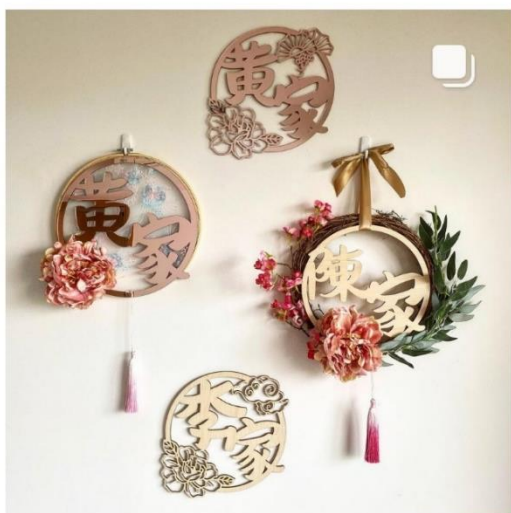
CHINESE NEW YEAR SPECIAL

Best 2021 CNY Recommendations

#supportlocal

Do you find Chinese red lanterns, paper cuttings and door couplets too mainstream for CNY decoration in 2021? Let us share with you what are some creative décor items our local businesses are offering on Instagram!

 ivoryanddust



ivoryanddust Spruce up your homes this Lunar New Year with our custo... more

@ivoryanddust

You could customise your family name wreath this Lunar New Year! The classic Pink Peony Wreath with the ombré tassel definitely brings out the CNY vibe into the design. Available in natural plywood design, red, rose gold, silver and gold in colour. Of course, they come in different sizes too! Isn't it a classy and trendy décor for your home this CNY?

 posylab.sg



posylab.sg 🍍 牛转乾坤, 旺旺来 🍍
#cnydecoration

@posylab.sg

I love it when flowers last forever! These handmade felt flowers and crafts are an excellent gift to friends and relatives this CNY. Other than the cute pineapple craft toy you see in this photo, they even have a handmade fortune cat craft toy that can be added into your bouquet or your pot of flowers!

CHINESE NEW YEAR SPECIAL

Best 2021 CNY Recommendations *#supportlocal*

 **hjemlivingsg**



@hjemlivingsg

Put those oriental design cushions away! It's 2021 and we need a fresh new look! The 3D lion head cushion is so adorable and huggable, and that's what cushions are for right?! Their cushion covers are very modern and colourful which are perfect for any contemporary home.

hjemlivingsg Start off the new year with a fresh new look for your home! ✨... more

 **likewildflowersg**



@likewildflowersg

Are you still buying the huge and long pussy willows from the plant nursery and throw them out after they wither? You may consider to invest on Preserved and Dried Flowers this CNY, they are real flowers that can last for months, or even years with minimal care. It will definitely be the iconic piece of art in your living room or office.

likewildflowersg A vibrant and cheerful pop of colour to spruce up the space... more