

Engineering Graduate Thrives Abroad



WITH 50 years of expertise in engineering education, Tunku Abdul Rahman University College (TAR UC) has a rich tradition of producing graduates with the knowledge, skills and attributes that meet the standards of the profession. Its Faculty of Engineering and Technology (FOET) began as the School of Technology in 1972 with programmes that prepared students to sit for internationally recognised professional examinations. Many TAR UC graduates have gone on to work both locally and abroad in the field of engineering.

After completing his SPM, Tan Tau Wee left his hometown of Kemaman, Terengganu, to pursue a Bachelor of Mechanical Engineering with Honours at TAR UC. His decision was based on the fact that his older brother pursued a bachelor's degree in Accounting. His seniors also highly recommended TAR UC as a highly rated institution of higher learning in Malaysia.

“As a Mechanical Engineering student at TAR UC, I learned a lot about engineering management. It honed my technical capabilities with leadership knowledge and skills, which prepared me for success in a highly technical organisation later on. “It has enabled me to lead a team of analysts and industrial engineers. I can help my company identify costs and budget needs for specific projects in their planning stage and delegate tasks and inspect processes and project results for accuracy and quality,” Tan said.

“I had the opportunity to learn Finite Element Analysis (FEA), which uses mathematical models to understand and quantify the effects of real-world conditions on a part or assembly. “These simulations, which are conducted via specialised software, allow engineers to locate potential problems in a design, including areas of tension and weak spots.

Using building material information and accurate 3D models of a part or assembly, FEA predicts structural or performance problems before they occur in the real world. These knowledge and skills have been really useful in my line of work.

”FOET students are encouraged to display their engineering knowledge, talent and innovation every year at the Project Design Exhibition (ProDEX) organised by FOET. Tan also took part in the event. His project was to design and fabricate a Solar-Powered Car Ventilation. “The lesson I learned from this project was the sequential steps I had to go through to complete it. It starts with the objective, methodology, design, test and commencement. All those steps are commonly practised in my job,” he said.

Tan obtained his bachelor’s degree in 2017 and he now works in UTOC Engineering Private Limited as a senior project engineer in Singapore. At the company, his career highlights include the three major projects he has successfully completed.

The first is Evonik ME6, a second world-scale production plant for the amino acid DL-methionine in Jurong Island, Singapore, as a project engineer. The second is as a project engineer for Exxonmobil-Chemical and Refining Integrated Singapore Plant (Crisp) Project, a world-scale refining complex across two sites – one on the mainland (Jurong) and another on Jurong Island (Pulau Ayer Chawan or PAC). Together with the Singapore Chemical Plant, they form the largest integrated ExxonMobil manufacturing complex in the world. The third is as project lead for the CCD (Singapore) Pte Ltd – VAE/VAEP Expansion Project, where Tan’s company was the PCM (main contractor) for Equipment, Steel Structure, Architectural, Piping, Insulation and E & I Works.

Tan is also an active member of the Institution of Engineering and

Technology (IET) in Singapore, which organises activities such as workshops, lectures, courses and engineering talks. Engineers are highly in demand not only in Malaysia but globally. With the right knowledge and well-recognised qualifications like Tan, one can be a sought-after engineer anywhere in the world.

■ For more details on the Bachelor of Mechanical Engineering with Honours and other engineering programmes offered by FOET, intakes or general enquiries about TAR UC, visit www.tarc.edu.my. Attractive scholarships are also available at TAR UC based on academic merit and there is also a sibling discount for qualified students.



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