

Opportunities for Industry-relevant Research

ONE of the most important factors of a good master's degree by research is if the research project is industry-relevant. Other important factors that contribute to a quality master's degree through research are knowledgeable and experienced research supervisors and the availability of industry-standard facilities to conduct research activities.

Pang Yik Siang is currently pursuing his Master of Computer Science at Tunku Abdul Rahman University College (TAR UC) and working on a research project about multi-view video coding in Industry 4.0. The aim is to develop high-efficiency video coding with real-time video streaming on multiple-view cameras for industry usage and to establish advanced video processing with Industry 4.0 implementation. In addition, the research project also has the potential to work well with 5G technology, resolving the issue of high-definition video transmission delay.

Prior to this, Pang had completed his degree in Mechanical Engineering at TAR UC, before joining a software company.

"During my employment, I worked closely with many manufacturing companies and realised how valuable programming is as a skill and why computer vision technology is gaining importance in the industry. Although my job exposed me to all these developments, I did not have the fundamentals in programming.

"I am very grateful to my supervisor

Assoc Prof Dr Tew Yiqi for suggesting the topic of computer vision technology and for his dedication. I appreciate Dr Tew for trusting me to explore and do tasks my own way. This helps me to be creative and if I reach a dead end, I can always discuss it with Dr Tew to solve the problem," Pang explains.

Through this research project, Pang also had the opportunity to work with students with different specialisations, in particular engineering students.

Explaining his role as supervisor, Dr Tew says, "I was once like Pang, where I did a number of research work for my PhD, hence I know the important support needed to help a student in his research work. As his supervisor, my fundamental role is to open his mindset to explore all the possibilities and guide him in his journey of growth. At TAR UC, students learn by doing and experiencing themselves, which is aligned with the Beyond Education philosophy. In addition, TAR UC provides the support in terms of facilities and environment to enable students like Pang to research and discover new advanced technology and its applications."

■ For more information about TAR UC's postgraduate programmes, intakes or other general enquiries, visit www.tarc.edu.my. Attractive scholarships are available at TAR UC on the basis of academic merit and sibling discount for qualified students.



Dr Tew (right) in a discussion with Pang on real-time video encoding and decoding processes using High Efficiency Video Coding standard.

