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Learning Minds Special

A passion for precision

Eyrica Lee sharpened her engineering expertise at SIT

A passion for aircraft and hands-on work led Ms Eyrica Lee, now 21, to engineering. She specialised in precision engineering at Nanyang Polytechnic, and graduated with a Diploma in Digital and Precision Engineering in 2015.

She is currently in the second year of a Bachelor of Engineering with Honours in Systems Engineering (ElectroMechanical Systems) programme, also known as SEEMS. The programme is a joint degree between the Singapore Institute of Technology (SIT) and the DigiPen Institute of Technology.



Ms Lee worked with her classmates to build a quadcopter for a semestral project. PHOTO: SIT

A MULTIFACETED APPROACH

“SEEMS is a multidisciplinary programme that integrates mechanical, electrical, electronic and computer engineering through systems engineering,” said Ms Lee.

She said the SEEMS programme trained her to design, develop and implement complex engineered systems made up of hardware, software and people, using project-based pedagogy.

“In my first two years at SIT, I worked on multidisciplinary projects, such as an obstacle avoidance tracked locomotion system and a rotorcraft locomotion system.

“I gained experience in designing and developing a system, from constructing the mechanical foundation to distributing electrical energy through the system and creating software capabilities.”

She applied for the Dual Studies

Industry Sponsorship Pioneer Programme. As the dual studies model originates in German universities, recipients will be sent on an overseas practical phase at their sponsor’s headquarters in Germany. There is also a compulsory exchange semester in the United States for students studying in the SEEMS programme.

LEARNING AT WORK

Ms Lee was one of two inaugural recipients of the Dual Studies Award in 2015, after being selected by her sponsoring company, Uhlmann Singapore. During her summer semester, she interned at Uhlmann, which covered one return trip to the company in Germany with accommodation.

She said: “The internship strengthened my bond with the company and allowed me to apply my academic knowledge to the industry. I also picked up German as part of the programme, which was a lovely experience.”

Ms Lee intends to do well at Uhlmann Singapore. “I wish to pursue my engineering dreams and be able to contribute to the company and society with innovative solutions.”