

Crystal Jade Tan

**Nitec in
Mechatronics & Robotics**

ITE College West



ITE Lee Kuan Yew

Model Student Award

The Fearless Explorer

Crystal has always embraced new challenges, from learning the guzheng to exploring robotics at ITE. Pursuing *Nitec* in Mechatronics and Robotics, she excelled as a top student and won awards in technology competitions.

Despite financial and caregiving responsibilities at home, she balanced studies with part-time work, supporting her family with resilience and positivity. She also gives back through tutoring, elderly outreach, and overseas leadership and community service trip in Thailand, where she built a water filtration system and refurbished school facilities. Crystal's grit, excellence, and compassion make her a true role model.

From the Heart

"It is really not about the awards. The real win is not a single moment of success. It is that stubborn inner fire that keeps you going, even when things are quiet. Stop waiting and just keep your own spark alive, no matter the odds or how much time passes. Your own hope will burn brighter than anything else. That applies to everything - at school, at home, and with your friends."

Life after ITE

Crystal is pursuing a Diploma in Robotics and Mechatronics at Nanyang Polytechnic. She plans to work in the engineering sector after completing her diploma.

Top Achievements

- Crystal led her team into winning the third prize in the tertiary category of National Robotics Competition 2024, where they developed an IoT-enabled flood mitigation system that captures storm water in carpark tanks for sustainable reuse in estate maintenance and irrigation.
- She was part of a team that won the Lee Kuan Yew Technology Award in 2025, creating an app that can help users track fresh food supplies stored in a refrigerator and monitor food expiration dates to reduce food waste.
- For her academic performance, she received the Keppel Care Foundation Scholarship 2025, EAGLES Award 2024 and 2023, Edusave Skills Award 2024, and Edusave Certificate of Academic Achievement 2023.
- She graduated with a perfect GPA of 4.0 and was on the Director's List for three consecutive terms spanning 2024 and 2025.
- In her college, she was conferred the 21st Century Star Award 2025 and Gold Award 2024 for her service contributions.
- As the President of Automation and Robotics Club, she successfully led recruitment activities and increased awareness and participation in robotics initiatives.

