



**CARMEL
SECONDARY SCHOOL
HONG KONG, CHINA**

15 Years of Building an Award-Winning Enthusiasm for STEM

“If a worker wants to do something good, he must first sharpen his tool.” This is a favorite saying of Cheung Chi Mau, who teaches middle school at Carmel Secondary School in Hong Kong.

Chi Mau believes the primary role of a school teacher is to find the most suitable teaching tools, and use them to develop students' potential, so that they may achieve their dreams and ambitions.

In 2003, Chi Mau purchased the LEGO® MINDSTORMS® Education RCX. And, when one of his students became interested, he organized participation in the first World Robotic Olympiad (WRO) competition in Hong Kong. With an entry named “Mechanism of the Family,” his team was runner-up of the Hong Kong FIRST® LEGO® League Creative Competition. Later, a robotics team was formed at Carmel to cultivate students' comprehensive scientific and technological abilities. This team has had excellent results in competition for many years. This encouraged Chi Mau to continue learning and expanding his program with LEGO® MINDSTORMS® Education EV3.

Chi Mau liked the way the LEGO MINDSTORMS Education learning model enhanced students' motivation and how easy it was for students to program and control the robot.

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About LEGO Education

From preschool to middle school and beyond, LEGO Education provides a continuum of hands-on, playful learning tools that engage every student's natural curiosity and help them develop the skills and confidence they'll need in the future.



So in 2007, he decided to introduce the LEGO MINDSTORMS into a school-based computer course. “Classroom activities suddenly became a robotic task platform, filled with students’ laughter and applause.”

His students have continued to compete and win. Just some of their accomplishments include: Carmel Middle School Competition, 2003 WRO Hong Kong District Selection Competition Creative Season, 2005 *FIRST*® LEGO® League Creative Robotics Grand Prix, 2008 *FIRST*® LEGO® League Asia-Pacific Championship East China Direct Competition, and the Japan *FIRST*® LEGO® League Creative Robot Competition. In 2012, they were *FIRST*® LEGO® League Hong Kong District Champions and took first place in the US Project Research World.

After more than 15 years of using LEGO MINDSTORMS Education in the classroom, Chi Mau believes the teaching tools help enhance students’ interest in electronics, mechanics, and engineering. In fact, one of his first award-winning graduates is now in the United States. He is a mechanical engineer and a guest lecturer in a university’s robotics course. More graduates are sure to follow in his footsteps, focusing on computers, and continuing to achieve their educational and career goals and potential in mechanical engineering.



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