

SUMMER 2024

EXPERIENTIAL LEARNING PROGRAMS

WITH INDUSTRY PROFESSIONALS

Jun 24 - Aug 2 | For Ages 7 - 14



Crime Scene Forensics



Dr. Scientist



Junior Robot Mechanic



Intelligent Robot Builder



Art & Design



Mini Human Biologist



Graffiti Workshop

WHICH PROGRAMS SUIT YOUR CHILD?

	Foundation Ages 7-8	Junior Ages 9-10	Intermediate Ages 11-12	Advanced Ages 13-14
 Crime Scene Forensics	✓	✓	✓	✓
 Dr. Scientist	✓			✓
Junior Robot Mechanic 	✓	✓		
 Intelligent Robot Builder			✓	✓
Art & Design 	✓	✓		
 Mini Human Biologist	✓			
Graffiti Workshop 	✓	✓	✓	✓

Crime Scene Forensics



Led by our CSI experts, we will immerse students in the roles of Sherlock Holmes and Dr. Watson as we hone their abilities of observation and deduction to apply new skills such as fingerprinting and DNA analysis. With hands-on experience using a constructed crime scene, students will be able to apply physics, chemistry and biology theories in solving a crime and figure out “Whodunnit?”

Theory: Physics, Chemistry, Biology

Skills: Fingerprinting & DNA, Impressions, Analyse blood splatters



Target Students:	Level 1: Rising G5 - 6 / P5 - 6 / Y6 - 7, 10 - 11 years old		
	Level 2: Rising G7 - 8 / S1 - 2 / Y8 - 9, 12 - 13 years old		
Schedule*:	Parent-Child Workshop: Students: Rising G2 - 4 / P2 - 4 / Y3 - 5, 7 - 9 years old (Each student is required to be accompanied by one parent)		
		Jul 8 - Jul 12	Jul 15 - Jul 19
	Level 1:	10:00am - 12:00nn / 1:00pm - 3:00pm	10:00am - 12:00nn
	Level 2:		1:00pm - 3:00pm
	Duration:	5 lessons (2hrs / lesson)	
	Parent-Child Workshop:	Jul 13	10:00am - 12:00nn, 1 lesson (2 hrs / lesson)
Fee^:	Level 1:	HK \$6,900 20% Early Bird Discount by May 15: HK \$5,520 10% Early Bird Discount by Jun 1: HK \$6,210	
	Level 2:	HK \$7,600 20% Early Bird Discount by May 15: HK \$6,080 10% Early Bird Discount by Jun 1: HK \$6,840	
	Parent-Child Workshop:	HK \$3,400 20% Early Bird Discount by May 15: HK \$2,720 10% Early Bird Discount by Jun 1: HK \$3,060	
Classroom*:	TBA		

Program Instructors



Ms. Kiki Wong

Forensic Expert & Communications Specialist

- Over 20 years of experience in the field of forensic science
- Trained and worked at the New Scotland Yard Metropolitan Police



Mr. Anthony Tsang

Forensic Consultant & Non-Verbal Communication Specialist

- BSc degree in Pharmacology from University College London

Program Highlights

Day 1:	Forensic introduction
Day 2:	Evidence collection
Day 3:	Physics: Prints & Force
Day 4:	Biochemistry: Fluids & DNA
Day 5:	Testimony in court

* Classrooms and schedules may be subject to change without prior notice.

^ Terms & Conditions apply.

Dr. Scientist



This course brings together doctors and specialists to inspire students to the world of medical science & biomedical technology! Through hands-on experience with real medical equipment and sharing by medical doctors, the course will spark the curiosity of these future medical leaders and enlighten them to explore a wider range of possibilities in the field of medical science.

Theory: Modern medicine, Genetics, Medical AI robotics, Therapeutics, Futuristic medicine

Skills: Diagnostics and emergency clinical skills



Target Students:	Level 1: Rising G2-3 / P2-3 / Y3-4, 7-8 years old Level 2: Rising G8-9 / S2-3 / Y9-10, 13-14 years old	
Schedule*:		Jul 22 - Jul 26
	Level 1:	10:00am - 11:30am 5 lessons (1.5 hrs / lesson)
	Level 2:	1:00pm - 3:00pm 5 lessons (2 hrs / lesson)
Fee^:	Level 1:	HK \$5,800 20% Early Bird Discount by May 15: HK \$4,640 10% Early Bird Discount by Jun 1: HK \$5,220
	Level 2:	HK \$8,300 20% Early Bird Discount by May 15: HK \$6,640 10% Early Bird Discount by Jun 1: HK \$7,470
	All fee includes a tool box valued at HK \$990	
Classroom*:	TBA	

Program Instructor



Dr. Alan Kwok

M.B.B.S Doctor

- A committed doctor who soldiered through Hong Kong's SARS epidemic. He is also a dedicated educator, and a regular keynote speaker and lecturer for scholastic

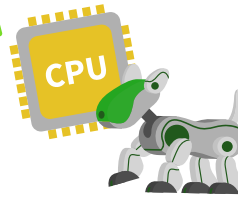
Program Highlights

Day 1:	Anatomy, Physiology & be-a-doctor
Day 2:	Immunity & intramuscular injection
Day 3:	Medical AI, Robotics, Surgical tools experience
Day 4:	Wound care & stitching, Genetics & sports, Joint injury care
Day 5:	Eyes & ears, Otoscopy, Cardiopulmonary Resuscitation

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Junior Robot Mechanic



This course offers an exciting hands-on learning experience where students will have the opportunity to build and program their own mechanical marvels. Led by our robotics and programming expert, the course is a series of guided challenges for students to apply fundamental coding knowledge and mechanics. This course is designed to capture the interests and imagination of students, all the while targeting the development of important Science, Technology, Engineering and Mathematics skills.

Theory: Mechanics & Motion, Programming

Skills: Engineering & Construction, Coding & Testing



Target Students:	Rising G3 - 5 / P3 - 5 / Y4 - 6, 8 - 10 years old	
Schedule*:	Jun 24 - Jun 28	Jul 29 - Aug 2
	2:00pm - 3:30pm 5 lessons (1.5 hrs/ lesson)	
Fee^:	HK \$7,500 20% Early Bird Discount by May 15: HK \$6,000 10% Early Bird Discount by Jun 1: HK \$6,750	
Classroom*:	TBA	

Program Highlights

Day 1:	Imperative programming Force & motion
Day 2:	Using variables Electronic components
Day 3:	Boolean operations Rotations & bearings
Day 4:	Loops Behaviours of lights
Day 5:	Functions Stimuli & response

Program Instructor



Dr. Lee Fan

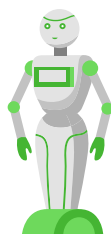
Robotics & Programming Expert

- PhD in Chemistry from Loughborough University
- Resident designer and developer of robotics and coding courses at ARCH

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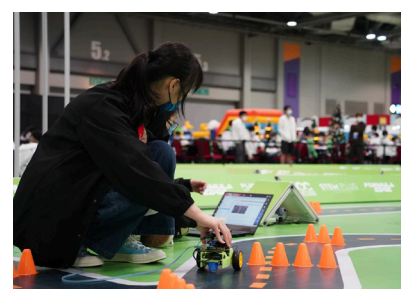
Intelligent Robot Builder



Taught by data scientists and Nvidia AI specialists, students will design and code AI coding applications. Through this engineering journey, students will be able to identify what true AI is and apply their newly acquired skills to program the Jetson Autonomous Robot which is developed by MIT and Nvidia.

Theory: Artificial intelligence and its real-life application, Python language

Skills: Troubleshooting skills to resolve hardware and software performance issues, Python Coding, Python for driving Hardware, Create AI model through the neural network programming



Target Students:	Rising G7-9 / S1-3 / Y8 -10, 12-14 years old
Schedule*:	Jul 22 - Aug 2
	10:00am - 12:00nn 10 lessons (2 hrs/ lesson)
Fee^:	HK \$15,500
	20% Early Bird Discount by May 15: HK \$12,400 10% Early Bird Discount by Jun 1: HK \$13,950
Classroom*:	TBA

Program Highlights

Day 1:	Building the Jetbot autonomous driving robot	Day 6:	Python in AI
Day 2:	Introduction to concepts of AI designs	Day 7:	Python for Jetbot
Day 3:	Application of Artificial Intelligence	Day 8:	Define and implement image recognition on Jetbot
Day 4:	Connect and control Jetbot through tracked manual input	Day 9:	Execute autonomous driving program
Day 5:	Foundations of Python programming	Day 10:	Fine tuning autonomous driving to race Jetbot on track

Program Instructors



Mr. Leslie Lee

Software Engineer of STEM PLUS



Dr. Ming Cheung

Data Scientist

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Art & Design



This course focuses on developing students' creativity, problem solving and self-expression skills. The students will be guided through a creative process of sketching, manipulating paper and fabric, pattern drafting and engineering parts together to resemble a garment.

- Skills:**
- Learn how to use color, line, shape, textures in fashion.
 - 3D modeling, basic pattern engineering, proportions and scale.
 - Develop individual voice and self-expression.
 - Gain opportunities to present their ideas in front of peers.

- Methodology:**
- Each class will begin with a short demo of various new techniques, then students will apply them in their own creative design while exercising decision-making.
 - Be in a positive environment and nurture team spirit as they face individual obstacles to problem solve and help one another.



Target Students:	Level 1: Rising G2 - 3 / P2 - 3 / Y3 - 4, 7 - 8 years old Level 2: Rising G4 - 5 / P4 - 5 / Y5 - 6, 9 - 10 years old		
Schedule*:		Jun 24 - Jul 5	Jul 1 - Jul 5
	Level 1:	10:00am - 11:30am	10:00am - 11:30am
	Level 2:	1:00pm - 2:30pm	1:00pm - 2:30pm
Duration:		10 lessons (1.5hrs / lesson)	5 lessons (1.5hrs / lesson)
Fee[^]:	Jun 24 - Jul 5	HK \$10,000 20% Early Bird Discount by May 15: HK \$8,000 10% Early Bird Discount by Jun 1: HK \$9,000	
	Jul 1 - Jul 5	HK \$5,200 20% Early Bird Discount by May 15: HK \$4,160 10% Early Bird Discount by Jun 1: HK \$4,680	
Classroom*:	TBA		

Program Instructor



Ms. Vivian Luk

Renowned Fashion Designer
with own Labels

- Working in the fashion industry, the Arts & Design course is led by our in-house fashion design instructor, director of 'Vivian Luk Atelier.'

Program Highlights

Week 1:	Students will learn 15-20 paper / fabric manipulation techniques and design 5-6 outfits on a miniature mannequin. They can style them with accessories and display their brand in their own 'Miniature Clothing Store'.
Week 2:	An introduction of pattern drafting, cutting, gluing and hand sewing fabric to assemble a life-size design. We will end with a fun fashion show.

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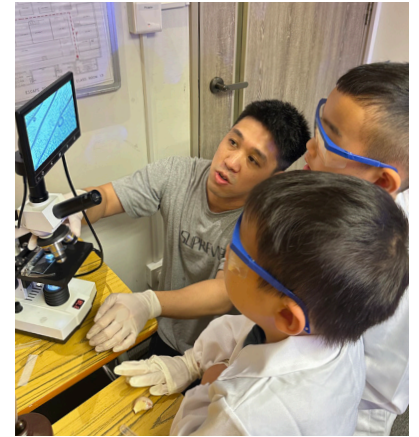
[^] Terms & Conditions apply.

Mini Human Biologist

How do lungs give us fresh air? How can I tell the difference between an itch and a pinch? How does blood carry nutrients throughout our body? Led by our industry experts, students will explore the intricacies of the human body through fun and interactive experiments and model human organs that our biology specialists will build together with students. Through scientific methods, students will gain a practical appreciation for the incredible result of natural evolution.

Theory: Respiratory system, Nervous system, Cardiovascular system

Skills: Teamwork, Practical experiments, Critical thinking



Target Students:	Rising G2-3 / P2-3 / Y3-4, 7-8 years old	
Schedule*:	Jul 1 - 5	Jul 29 - Aug 2
	2:00pm - 3:30pm 5 lessons (1.5 hrs/ lesson)	10:00am - 11:30am 5 lessons (1.5 hrs/ lesson)
Fee^:	HK \$5,500 20% Early Bird Discount by May 15: HK \$4,400 10% Early Bird Discount by Jun 1: HK \$4,950	
Classroom*:	TBA	

Program Highlights

Day 1:	The living body, Build a model microscope
Day 2:	Heart and blood, Build a model of cardiovascular system
Day 3:	Human skin and protection, Build structure of skin
Day 4:	Stomach and nutrition, Build a model of digestive chamber
Day 5:	Oxygen exchange, Build a model of the lungs

Program Instructor



Mr. Arthur Cheung

Biology Specialist

- University of Leicester, BSc Biological Sciences (Zoology)

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Graffiti Workshop

Express your thoughts and emotions through art, find your confidence and spirit in every brushstroke. Through combining different modern art forms, we give students the tools to express themselves and make every surface their canvases. With inspirations from our independent art team, we will expose students to contemporary greats like Banksy and develop their styles using multiple art mediums and techniques. Students will then work together on a collaborative piece that would be painted on an actual building to beautify the community.

Theory: Art and community awareness, Abstract & Surreal Art

Skills: Water-based medium, Acrylics, Graphics design process



Target Students:	Level 1: Rising G2 - 6 / P2 - 6 / Y3 - 7, 7-11 years old Level 2: Rising G7 - 9 / S1 - 3 / Y8 - 9, 12-14 years old	
Schedule*:	Jul 27 (Sat)	
	Level 1: 10:00am - 1:00pm 1 lesson (3 hrs/ lesson)	
	Level 2: 2:00pm - 5:00pm 1 lesson (3 hrs/ lesson)	
Fee^:	Level 1:	HK \$2,100 20% off Early Bird Discount by May 15: HK \$1,680 10% off Early Bird Discount by Jun 1: HK \$1,890
	Level 2:	HK \$2,300 20% Early Bird Discount by May 15: HK \$1,840 10% Early Bird Discount by Jun 1: HK \$2,070

Program Highlights

- Graffiti history & introduction
- Throwie graffiti design
- Can-control & safety tips
- Spray painting & mural techniques
- Joint wall painting project

Program Instructor



Mr. Billy Hung

Graffiti & Stencil Artist
Youth Instructor

- Involves in creative and community projects

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