香 港 資 優 教 育 學 苑
The Hong Kong Academy for Gifted Education

C2ROB001W
(Token- required)

Robotics Workshop (Level I)

Robotics within Hong Kong's Development as a Smart City

Dr Darwin Lau
Associate Professor
Department of Mechanical and Automation Engineering
The Chinese University of Hong Kong

Application Deadline
3 April 2023 12:00 noon

Intended Learning Outcomes

Upon completion of the programme, participants should be able to:

1. Appreciate how robotics can contribute to smarter and safer building construction and maintenance in Hong Kong
2. Understand the lifecycle and subject areas within the research and development for innovative robot solutions
3. Gain a perspective and inspiration on the future outlook on developing a smarter Hong Kong

If student members withdraw from the programme after the Application Deadline, the token will be deducted.

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Introduction

Hong Kong is a densely populated and modern city with great demand for smart building construction and maintenance. Furthermore, due to the lack of skilled workers due to the ageing workforce, dangerous and harsh working conditions, the building industry is in dire need for technology and automation solutions in all types of construction tasks: including façade painting, window cleaning, building inspection, concrete works, foundation works etc. In this workshop, the recent developments robots for building construction and maintenance in Hong Kong will be presented. Furthermore, the design and development process within the R&D of such projects will also be discussed.

This workshop is under collaboration of HKAGE and The Department of Mechanical and Automation Engineering, The Chinese University of Hong Kong.

Schedule

Session	Date	Time	Venue
1	14 April 2023	2:30 p.m. – 3:30 p.m. (Talk) 3:30 p.m. – 4:30 p.m. (Lab visit)	TY Wong Hall, 5/F, Ho Sin Hang Engineering Building, CUHK (MAP)

Target Participants

- S1 – S6 HKAGE student members in 2022/23 school year only
- Class size: 50

* First-come-first-served.

Pre-requisite

No special prerequisites are needed

Medium of Instruction

English with English handouts

Certificate

E-Certificate will be awarded to participants who have:

- attended the session; AND
- completed all the assignments with satisfactory performance

Enquiries 3940 0101 programme@hkage.org.hk

Reference Photos