



香港資優教育學苑
The Hong Kong Academy for Gifted Education

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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
12 Aug 2022 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



◆ 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 talk, 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 talk 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	16 Aug	2:00 p.m. – 3:00 p.m. (Talk) 3:00 p.m. – 4:00 p.m. (Lab visit)	The Chinese University of Hong Kong / Zoom Meeting

◆ Target Participants

- S1 – S6 HKAGE student members in 2021/22 school year only
- Class size: 100
(The first 50 students will participate in person; from the 51st to 100th students will participate via Zoom Meeting.)

* 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 ALL sessions; AND
- completed all the assignments with satisfactory performance