

Junior Researcher Mentoring Programme

2023

Code:	JRMP2023_18
School / Department:	Department of Mechanical Engineering
Name of Research Team Member(s):	Dr Henry Chu, Associate Professor
Research Topic:	Development of a Self-driving Robot for Use in an Indoor Environment
Short Description of the Research Project:	Self-driving robots have gained increasing attention in recent years, particularly when face-to-face interactions become a hazard during the global pandemic. This project aims to develop an autonomous robot that can provide general delivery service in an indoor environment. Students will have the opportunity to get familiar with different sensors and artificial intelligence (AI) technologies to aid the robot's navigation, while avoiding collision with different obstacles. The participating students will have the opportunity to gain hands-on experience in mechanical design (3D printing) to programming to enhance the performance of the self-driving robot.
No. of Places Offered:	1 to 3
Frequency of Meetings:	Bi-weekly
Special Requirement(s):	The participating students should have: 1) basic mechanical knowledge (Physics) and programming skills; and 2) experience in STEM projects/ activities.

** The information presented above is subject to change.*