



# JUNIOR RESEARCHER MENTORING PROGRAMME 2022

<b>Code:</b>	JRMP2022_20
<b>School / Department:</b>	Department of Mechanical Engineering
<b>Name of Research Leader:</b>	Dr Henry KH Chu, Assistant Professor
<b>Research Topic:</b>	Development of a Self-driving Robot for Use in an Indoor Environment
<b>Short Description of the Research Project:</b>	<p>Self-driving robots have gained increasing attention in recent years, particularly when face-to-face interactions become a hazard under the global pandemic. This project aims to develop an autonomous robot that can provide general delivery service in an indoor environment.</p> <p>Participating students will have the opportunity to get familiar with different sensors and artificial intelligence (AI) technologies to aid the robot navigation, while avoiding collision with different obstacles. Students will also have the opportunity to gain hands-on experience from mechanical design (3D printing) to programming to enhance the performance of the self-driving robot.</p>
<b>No. of Places Offered:</b>	1 - 3
<b>Frequency of Meetings:</b>	Bi-weekly

**Special Requirement(s):**

- With basic mechanical knowledge (Physics) and basic programming skills
- With experience in STEM projects/activities

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