

# POLYU Junior Researcher Mentoring Programme 2024



<b>Code:</b>	JRMP2024_08
<b>School / Department:</b>	Department of Mechanical Engineering
<b>Name of Research Team Member(s):</b>	Dr Henry K.H. Chu, Associate 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 became hazardous during the COVID-19 pandemic.</p> <p>This project will aim to develop an autonomous robot that can provide general delivery services in an indoor environment. The participating students will have the opportunity to become familiar with various sensors and artificial intelligence (AI) technologies to aid the robot navigation while avoiding collision with obstacles. The participating students will also gain hands-on experience in mechanical design (3D printing) and programming as they work to enhance the performance of the self-driving robot.</p>
<b>No. of Places Offered:</b>	3
<b>Frequency of Meetings:</b>	Bi-weekly
<b>Special Requirement(s):</b>	The participating students should have basic mechanical knowledge (Physics), basic programming skills and experience in STEM projects/activities.

\* The information presented above is subject to change.