

POLYU Junior Researcher Mentoring Programme 2024



Code:	JRMP2024_24
School / Department:	Department of Applied Physics
Name of Research Team Member(s):	Dr C.W. Leung, Associate Professor Dr Mak Chee-leung, Senior Project Fellow
Research Topic:	Design of IoT systems
Short Description of the Research Project:	<p>IoT devices and systems are omnipresent in our daily lives, collecting information from various sources (e.g. our house, the environment or our bodies). For example, various remote-controlled experiments have been constructed for our award-winning LabXRA platform (https://stem-ap.polyu.edu.hk/home_en.html).</p> <p>In this project, the participating students will design and implement a custom-made IoT system. Starting from scratch, they will choose and prepare custom-made IoT components to perform specific tasks. They will then assemble these components to execute functions according to the needs of the chosen application, with data collected either for subsequent analysis or for feedback control.</p> <p>The participating students will be able to develop a broad range of technical knowledge (programming, electronics, 3D printing) and 'soft skills' (project design and implementation, logical reasoning, teamwork and communication).</p>
No. of Places Offered:	2
Frequency of Meetings:	Bi-weekly
Special Requirement(s):	The participating students should have previous experience in programming (python), IoT systems or 3D printing.

* The information presented above is subject to change.