

Photchara Ratsamee, Ph.D.  
Associate Professor (Lecturer)  
Department of System Design,  
Faculty of Robotics and Design,  
Osaka Institute of Technology, Japan  
mail: ratsamee.photchara@oit.ac.jp  
mail: photcyber@gmail.com

## Recommendation Letter

I was first introduced to Virgile when he came to the Infomedia Laboratory, Osaka University as an intern during his master's years. He was recommended to me by Prof Sinan HALIYO from his home university and upon arriving we chose to dedicate the internship subject to one of the tasks in the international robotic competition named MBZIRC2020 (Mohamed Bin Zayed International Robotics Challenge). I heard that he had various experiences during his studies, and he also focused his internships and projects on conducting successful research both in laboratories and private companies.

During the internship, his work focused on the challenges one and three of the MBZIRC2020 and the use and modification of UAVs to create a team of drones capable of fulfilling the requirements. Virgile didn't know ROS middleware well upon arriving with us, but he was able to quickly acquire knowledge on this topic and channel it on taking control of specific tasks and development inside the team. Virgile's understanding of diverse topics (hardware, conception and CAD, electronics, vision) made him blend well with the team where he chose to focus on the control of drone trajectory for the mission (exploration of the field, the building and the localization of the windows).

While working together, he showed a strong interest in Japanese culture and the research environment. After the end of the internship we stayed in contact, Virgile wanted to continue his studies with a doctoral course in Japan under my supervision. He proposed that we create a specific research proposal using a "cotutelle" (double degree) with the French senior researcher Simon LACROIX from CNRS, LAAS. Virgile has a joyful personality and is diligent. Through his research guidance, I felt that he has a strong passion for researching and applying robotic and intelligent systems solutions to society and expert's issues. I believe that Virgile has the mind of a researcher and his hardworking and that is why I recommend him as one of the strong candidates to receive the scholarship.

*Photchara Ratsamee*