

Pusan National University Robotics gPBL Program

Date	Place	Partner Organization	Students' Major and Grade	Participants' Information	SIT Instructor
2026/08/19 ~2026/08/28	Republic of Korea	Pusan National University	•Electrical Engineering and Robotics •Undergraduate 2nd grade, Undergraduate 1st grade	(SIT) Students 12, Student Staff 2, Professor 3 (Pusan National University) Students 6, Student Staff 3, Professor 2	ANDOU Yoshinobu(Electrical and Electronic Engineering Electrical Engineering and Robotics), YOSHIMI Takashi(Electrical and Electronic Engineering Electrical Engineering and Robotics), YONEMITSU Fumiya(Electrical and Electronic Engineering Electrical Engineering and Robotics)



Image1 Members

This global PBL (Project-Based Learning) program in Busan, South Korea, ran from August 19th (Wednesday) to August 28th (Friday). Participants were divided into two groups and stayed at the laboratories of Professor Junghan Kwon and Professor Sang Rok Jin at Pusan National University, working on robot-related projects with the cooperation of these two laboratories. A total of 12 students from Shibaura Institute of Technology, consisting of first and second-year students from the Electrical Engineering and Robotics course of the Electrical and Electronic Engineering Program, participated. Three faculty members and two teaching assistants from Shibaura provided support.

In this gPBL program, the two research labs were further divided into two groups, resulting in four teams, each working on their own assigned tasks. Teams A and B from Junghan Kwon's lab challenged a mobile robot navigation problem using ROS2. They worked on making the mobile robot autonomous using simulations and actual robots. Teams A and B from Sang Rok Jin's lab designed wire-driven arm components using modeling software and a 3D printer, and then implemented the arm's movement using Arduino. Each group gave a final presentation, explaining their work.



Image2 Group work



Image3 Group work



Image4 Group work



Image5 Group work



Image6 Special_lecture