

Person Following Mobile Robot Development PBL

Implementation period	Implementing country	SIT's implementation partner organization	Target students	Participant	SIT instructor
2019/08/21 ~2019/08/30	Japan	Pusan National University	<ul style="list-style-type: none"> Department of Electrical Engineering Undergraduate 3rd grade 	(SIT) Students 3, TA 2, Professor 4 (Pusan National University) Students 3, Professor 1	YOSHIMI Takashi(Department Of Electrical Engineering), ANDOU Yoshinobu(Department Of Electrical Engineering), HASEGAWA Tadahiro(Department Of Electrical Engineering), MARUKI Satoko(Department Of Electrical Engineering)

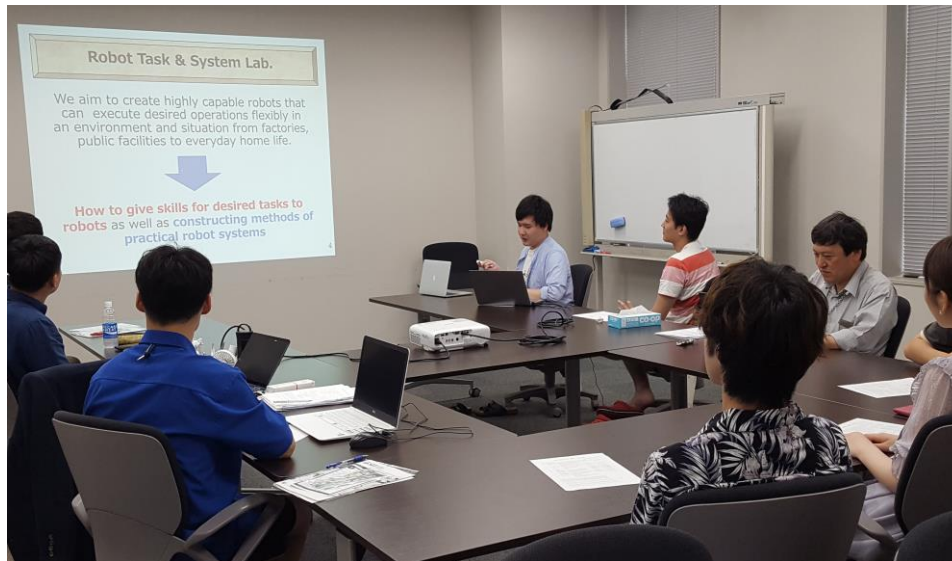


Image1 1st Day Orientation

We conducted a PBL program to develop a human-following mobile robot from August 21st (Wed) to 30th (Fri) by accepting three master course students from Busan National University, Korea, and together with three third-year students from the Department of Electrical Engineering, Shibaura Institute of Technology. Each two Korean and Japanese students of three groups considered how to find people and how to follow them, constructing a program of these functions, then, it was mounted on a mobile robot and its performance was evaluated through experiments. Eventually, all teams realized the function of person following, and through this PBL, they were able to learn human sensing technology and mobile robot motion control technology. In addition, during the 8 days PBL period, the students enjoyed the technical tour of four robotics labs. (Yoshimi Lab., Hasegawa Lab., Ando Lab. and Abiko Lab.) in the department of Electrical Engineering, SIT, and, visited JUKI Corporation to observe the state-of-the-art high-speed chip moulder and full-automated industrial sewing machine technologies. The students also attended a special lecture by Prof. Min Cheol Lee from Busan National University and Prof. Takashi Yoshimi from SIT. It was a rich PBL program that could touch the robot and mechatronics technology of Japan and Korea. The students from both Korea and Japan who participated this program could have a meaningful time with each other not only in the technical field but also in cultural exchange.



Image2 Prgram Development



Image3 Person Following Robot



Image4 Visit to JUKI Corporation



Image5 Favorite Japanese Food: