

gPBL for traffic safety research

Date	Place	Partner Organization	Students' Major and Grade	Participants' Information	SIT Instructor
2024/08/01 ~2024/08/11	United Kingdom	Loughborough University	Department of Engineering Science and Mechanics, Mechanical Engineering Undergraduate 4th grade, Master 2nd grade	(SIT) Students 8, Professor 2, Staff 1 (Loughborough University) Students 8, Professor 2, Staff 3	HIROSE Toshiya (Mechanical Engineering Advanced Mechanical Engineering), MORINO Hiroaki (Computer and Communications Engineering Information and Communications Engineering) Shuncong Shen (Postdoctoral Fellowship)



Certificate of Participation Award of PBL

At Loughborough University in the UK, we conducted a global PBL (Project-Based Learning) program focused on traffic safety research. Students from our Mechanical and Functional Engineering departments participated along with students from Loughborough University, with faculty members introducing their research and proposing challenges. The project involved analyzing the safe use and accident rates of roundabouts in Japan and the UK, interactions between autonomous vehicles and humans, the effects of Human-Machine Interfaces (HMI), and also incorporated aspects of information communication into the challenges. Additionally, local traffic surveys were conducted in London, Liverpool and York where data collection was carried out through cultural experiences. Through surveys and presentations, we received opinions and feedback from local educators and researchers, further deepening our research questions. Through this PBL, students developed research skills with an international perspective, collaborative teamwork, and problem-solving abilities, enhancing their expertise.



Research Center Group Photo



Group Research Activity



Visit to Loughborough University Driving Simulator



Local Traffic Survey



London Traffic Survey and Cultural Experience



Presentation and Communication of Achievements