Jaehyun PARK

PERSONAL DATA

Graduate Student
MARCH Lab., Department of Mechanical Engineering,
Pohang University of Science and Technology (POSTECH)
77 Cheongam-ro, Pohang, Gyeongbuk,37673, Republic of Korea.

NATIONALITY	South Korea
BIRTH	September 15, 1998
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RESEARCH INTERESTS

Robotics
- Haptics
- Teleoperation in Extreme Environments
- Mechanism Design

EDUCATION

2023.02-	Ph.D Student, Department of Mechanical Engineering
	Pohang University of Science and Technology (POSTECH), Pohang, Korea
	Advisor: Prof. Keehoon Kim
2021.02-2023.2	M.S., Department of Mechanical Engineering
	Pohang University of Science and Technology (POSTECH), Pohang, Korea
	Advisor: Prof. Keehoon Kim
	Thesis: Development of Safe Teleoperation Interface Specified to Iron Lump Removal
2017.02-2021.02	B.S., Department of Mechanical Engineering
	Pohang University of Science and Technology (POSTECH), Pohang, Korea

INTERNSHIP

2019.12-2020.12	Internship, MARCH Lab. (POSTECH) Advisor: Prof. Keehoon Kim
2019.06-2019.12	Internship, BBRC Lab. (POSTECH) Advisor: Prof. Sang Joon Lee

AWARDS AND HONORS

2017.05	National Presidential Science Scholarship (Korea Student Aid Foundation)
2017.02	Global Talent and Lifelong Education Scholarship (Incheon Institute for Talent and Lifelong Education)

PUBLICATIONS

Journal Articles

1. Jeong Jae Kim, **Jae Hyun Park**, Sung Yong Jung, Sang Joon Lee, "Effect of trichome structure of *Tillandsia usneoides* on deposition of particulate matter under flow conditions," *Journal of Hazardous Materials*.

Conferences

1. **Jaehyun Park**, Il Seop Choi, Sang-Woo Choi, and Keehoon Kim, "Adaptive Haptic Control Interface for Safeguarding Robotic Teleoperation in Hazardous Steelmaking Environments," *International Conference on Robotics and Automation (ICRA). IEEE, 2024.*
2. **Jaehyun Park**, and Keehoon Kim, "Design, Implementation, and Validation of an Ungrounded Visuo-Tactile Haptic Interface for Robtic Teleoperation in High-Risk Steel Production, "*International Conference on Robotics and Automation (ICRA). IEEE, 2025.* (Accepted)

LANGUAGES, SKILLS AND ABILITIES

Languages	Korean (mothertongue)
	English (intermediate)
Computer Skills	MATLAB, C/C++/C#, Python, STM32CubeIDE
	Visual Studio, SolidWorks, Unity, Xenomai
Hardware & Equipment	Embedded - Arduino
	Embedded - Nucleo
ETC.	POSTECH Astronomical observation club (별사랑)

INTERESTS AND ACTIVITIES

Astronomical observation, Badminton