

# Sanghoon Lee

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|----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------|
| EDUCATION                  | <b><i>M.S. in School of Electrical Engineering,</i></b><br>KAIST, Daejeon, South Korea. <ul style="list-style-type: none"><li>• <i>Advisor:</i> Prof. Min Jun Kim.</li></ul>                                                                                                                                                               | Mar 2023 - (expected)                        |
|                            | <b><i>Bachelor of Mechanical Engineering<br/>&amp; School of Computing (double major),</i></b> CGPA-3.90/4.3<br>KAIST, Daejeon, South Korea.                                                                                                                                                                                               | Mar 2018 - (present)                         |
| RESEARCH<br>INTEREST       | <i>Robot Manipulation &amp; Control / Machine Learning</i>                                                                                                                                                                                                                                                                                 |                                              |
| TECHNICAL<br>SKILLS        | <i>Programming Languages:</i> C/C++, Python, Java, Scala, Rust, MATLAB.<br><br><i>Designing Software:</i> Solid-Works, Fusion 360, KeyShot.                                                                                                                                                                                                |                                              |
| RESEARCH<br>EXPERIENCE     | <b><i>IRS Lab</i></b> in KAIST School of Electrical Engineering<br>Undergraduate Researcher <ul style="list-style-type: none"><li>• <i>Advisor:</i> Prof. Min Jun Kim.</li><li>• <i>TA:</i> Jinyeong Jung</li><li>• Studied basic robot kinematics and dynamics</li><li>• Participated in <i>Undergraduate Research Program</i>.</li></ul> | Jul 2021 – (present)                         |
|                            | <b><i>HRI Lab</i></b> in KAIST Mechanical Engineering Dept.<br>Undergraduate Researcher <ul style="list-style-type: none"><li>• <i>Advisor:</i> Prof. Ki-Uk Kyung.</li><li>• Studied electro-active polymer type actuators.</li></ul>                                                                                                      | Jul 2020 - Nov 2020                          |
| CONFERENCE<br>PUBLICATIONS | [1] Sanghoon Lee, Jinyeong Jeong, Min Jun Kim, “Implementation of Impedance Controller for Redundant Robot Manipulators Using Extended Exponential Coordinates”, ICROS 2022, Geoje, Korea, Jun 22-24, 2022.                                                                                                                                |                                              |
| HONORS AND<br>AWARDS       | <ul style="list-style-type: none"><li>• ICROS 2022 Undergraduate Papers Award</li><li>• National Science &amp; Technology Scholarship</li><li>• ME Academic Excellence Scholarship</li></ul>                                                                                                                                               | Jul 2022<br>2020 - 2021<br>2019 Spring, Fall |

**EXTRA  
CURRICULAR  
ACTIVITIES**

- KAIST Student Representative of *NAEK YEHS*, Dec 2021 - (present).
- Student Representative of *Dept. of Mechanical Engineering in KAIST*, Dec 2019 - Dec 2020.
- Captain of *Encouraging Leaders of KAIST* (Cheerleaders), Nov 2019 - Nov 2020.