

# Gihyeon Lee

Undergraduate  
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<https://github.com/Leekh951/Lee-Gihyeon>

## EDUCATION

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Mar. 2018 ~ Present	<b>Inha University</b> Department of Mechanical Engineering <i>Bachelor Student</i> GPA: 4.36 / 4.5	Incheon, Korea
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## RESEARCH INTERESTS

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- Mobile Robotics
  - An Unmanned Multipurpose Robot (Military, Future City)
  - Visual/LiDAR SLAM and Navigation with ROS
  - Path Planning

## PUBLICATIONS (DOMESTIC)

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1. Ki-Hyeon Lee, Chang-Hyun Chung, Seung-Hyun Ahn , "Four-legged walking robot for school security using Lidar SLAM", Proceedings of the Korea Information Processing Society Conference Vol.29 No.2 , (2022)

## CONFERENCES

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1. Ki-Hyeon Lee, Chang-Hyun Chung, Seung-Hyun Ahn , "ACK 2022", Korea Information Processing Society , Gangwon-do, Korea (Nov. 2022) - Oral (On-line)

## PATENTS

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1. Gi-Hyeon Lee, Chang-Hyun Chung, Seung-Hyun Ahn, Ye-eun Cho, Seung-yeon Jung, "경비용 4족 보행 로봇{SECURITY QUADRUPEDAL ROBOT}", KR-Application No. 10-2022-0153829

## RESEARCH EXPERIENCES

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- Research Student at Spatial AI and Robotics (SPARO) Lab, Inha University, Korea (Sep. 2022 ~ Present) / SLAM and Navigation with LiDAR and Camera, Regular seminar on research papers

## PROJECTS

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- Four-legged walking robot for school security using Lidar SLAM, Hanium ICT mentoring (The Federation of Korean Information Industries, FKII), Korea / Robot systems such as Control, Lidar SLAM, VNC, etc. (Mar. 2022 ~ Nov. 2022)
- Indoor SLAM and Navigation using Turtlebot 2, Spatial AI and Robotics (SPARO) Lab, Korea / Lidar SLAM and Navigation with ROS (Sep. 2022 ~ Dec. 2022)
- Mechanical Measurement Term Project (Illuminance measurement with CdS cell, Force measurement with FSR), Inha University , Korea / Sensitivity measurement of the sensor, Response analysis of the sensor signal (Oct. 2022 ~ Nov. 2022)
- A study of Positioning system in multi-storey buildings with fusion of Visual Marker and LiDAR, Spatial AI and Robotics (SPARO) Lab, Korea / Visual, Lidar SLAM and Navigation with ROS (Dec. 2022 ~ Present)

## ADDITIONAL INFORMATION

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- Club
  - Robot Research Club, Inha University , Korea/ Manager of Hanium ICT mentoring project in the club (Mar. 2018 ~ Present)
  - Inha Techshop Club, Inha University , Korea/ Regular member (Mar. 2022 ~ Present)

## AWARDS AND HONORS

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- Certificate of National Excellence Scholarship (Natural Science and Engineering), Ministry of Science and ICT, Korea (Aug. 2022)
- Inha Comprehensive Design Competition (3rd prize), Inha Innovation Center for Engineering Education, Korea (Sep. 2022)
- Hanium ICT mentoring contest exhibit (Be Selected prize), The Federation of Korean Information Industries, Korea (Nov. 2022)
- 2022 Korea Information Processing Society ICT Mentoring Conference (Excellence Award), Korea Information Processing Society, Korea (Nov. 2022)
- The Best Engineer Award, Inha University College of Engineering, Korea (Jan. 2023)

## SCHOLARSHIP

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- Academic Excellence Scholarship, Inha University , Korea (Mar. 2021)
- Academic Excellence Scholarship, Inha University , Korea (Sep. 2021)
- "인하 더 배움" Mileage Scholarship, Inha University , Korea (Sep. 2021)
- Learning Program Scholarship (National Subsidies), Inha University , Korea (Sep. 2021)
- National Excellence Scholarship (Natural Sciences and Engineering), Korea Student Aid Foundation , Korea (Mar. 2022)
- Guwon Scholarship, Guwon Scholarship Foundation , Korea (Mar. 2022)
- Inha University Alumni Scholarship, Inha University Alumni Scholarship Society , Korea (Mar. 2022)
- National Excellence Scholarship (Natural Sciences and Engineering), Korea Student Aid Foundation , Korea (Sep. 2022)
- Guwon Scholarship, Guwon Scholarship Foundation , Korea (Sep. 2022)
- Inha University Alumni Scholarship, Inha University Alumni Scholarship Society , Korea (Sep. 2022)

## SKILLS AND TECHNIQUES

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- Software Tool Skills
  - ROS (Intermediate)
  - Python (Pre-Intermediate)
  - C++ (Pre-Intermediate)
  - MATLAB (Pre-Intermediate)
- Language
  - Korean (Native)
  - English (Intermediate)