

# Chemin Ahn

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Birth: 1998.12.22

Portfolio: <https://chemx3937.github.io/>



## Education

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- Bachelor of Science in Mechanical Engineering  
Chungang University, Seoul, South Korea  
- Major in Mechanical Engineering  
- 3.84 / 4.50 GPA (CUM LAUDE)
- Master Course of Science in Mechanical Engineering  
Sungkyunkwan University – Robotics Innovatory Lab (Prof. HyouckRyeol Choi)

## Research Interest

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- Robotics
- Imitation Learning
- Reinforcement Learning
- Computer Vision

## Projects

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### Master Course

- **Teleoperation:**
  - VR Tracker (Safety Limit)  
(<https://youtu.be/ToG8sNmdli0?si=a3Xqx6uPEkklisuQ>)
  - Ultimate VR Tracker (Visual SLAM based VR Tracker)  
(<https://youtu.be/yQAdfKhJR1M?si=dOepBiyha9SJi26N>)
  - Leader Arm (Teleoperation + Gravity Compensation + Force Feedback)  
([https://youtu.be/nlc4Vweq\\_zc?si=jEefWM4CqLHbqsmY](https://youtu.be/nlc4Vweq_zc?si=jEefWM4CqLHbqsmY))
  - Dual Arm Leader arm (Teleoperation + Gravity compensation)  
@ IsaacSim & Real  
([https://www.youtube.com/watch?v=20hL\\_duRynY](https://www.youtube.com/watch?v=20hL_duRynY))
- **Imitation Learning**
  - One Arm: Push toolbox cabinet  
([https://youtu.be/VPG-\\_bH2SSY?si=8rqA-iMXFOOb57a3](https://youtu.be/VPG-_bH2SSY?si=8rqA-iMXFOOb57a3))
  - Dual Arm: Move box  
(<https://youtu.be/WTx4ySlACAU?si=3ql5pj5ftQYm6d3j>)
  - Dual Arm + Hand Imitation Learning
  - Multimodal(Vision + Force) Imitation Learning

## Intern & Others

- Visual Servoing Package during Doosan Robotics Robot Control Team Intern ([https://youtu.be/9UFAdaa\\_PR8?si=LtkzL9kk2eVBcLp8](https://youtu.be/9UFAdaa_PR8?si=LtkzL9kk2eVBcLp8))
- Project: assisting pharmaceutical preparation and autonomous delivery using cobot and AMR ([https://youtu.be/-mTXpCWZacI?si=YXC8AwRQ8FV\\_uN9S](https://youtu.be/-mTXpCWZacI?si=YXC8AwRQ8FV_uN9S))

## Bachelor's degree

- Finding the optimal sensor for AMR and analyzing driving characteristics by algorithm combinations (<https://youtu.be/whuUySDWIwA?si=vPVX8IQul7cd9p3q>)
- Design light weight passive wearable suit for logistic workers
- Design light weight battle robot
- Maze escape using OD based autonomous drone

## Additional Experience

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- Doosan Robotics Robot Control Team intern: 2024.07.01~10.04
- AI-Robotics Academy(KG-Kairos): 2023.12.19~24.06.17
- Undergraduate research student: 2022.12.22~2023.02.28  
- Passive Wearable Suit for logistics worker

## Awards

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- Capstone Design Contest – 2<sup>nd</sup> prize (2024.06)
- AI-Robotics Academy KG-Kairos (KG ICT) – 2<sup>nd</sup> prize (2024.06)
- Cum Laude – Chungang University(2025.02)

## Tool Skills

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- Language & Framework: Python, Matlab, ROS 1, 2
- Simulation Tools: Isaac Sim, Isaac Lab, Gazebo, Ignition Gazebo
- Manipulator: Doosan Robotics, Rainbow Robotics
- Other: Git, SolidWorks

## Language Skills

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- English: fluent (reading, listening); intermediate (speaking, writing)
  - TOEIC Speaking: 140(IH)

## Additional Link

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- Portfolio: <https://chemx3937.github.io/>
- Github: <https://github.com/Chemx3937>
- Youtube: <https://www.youtube.com/@%EC%B3%84-r3i>
- Linkedin:<https://www.linkedin.com/in/%EC%B2%B4%EB%AF%BC-%EC%95%88-6ab239372/>

## Related Courses

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- Intelligent Robotics
- Robot Reinforcement Learning
- Dynamics
- System Dynamics
- Control Systems Engineering
- Mechatronics
- Robotics
- Numerical Methods
- Design and Analysis of Experiments
- System Control Experiments
- Visual Programming