

# Chemin Ahn

Email: [yealstrike@gmail.com](mailto:yealstrike@gmail.com)  
[chemx3937@gmail.com](mailto:chemx3937@gmail.com)

Birth: 1998.12.22

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



## Education

---

- 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

---

- Robotics
- Imitation Learning
- Reinforcement Learning
- Computer Vision

## Projects

---

### Master Course

- **Teleoperation:**
  - Leader Arm  
w/ Teleoperation + Force Feedback + Gripper Feedback + Gravity Compensation  
(<https://youtu.be/dhNTIGTX53Q?si=il2BSdpKIuVkS4Q8>)
  - Dual Arm Leader arm  
w/ Teleoperation + Force Feedback + Gravity Compensation  
(<https://youtu.be/Q0x2Fh5BNF8?si=XVNefWEzQ33wNWMp>)
  - VR Tracker (Safety Limit)  
(<https://youtu.be/ToG8sNmdli0?si=a3Xqx6uPEkklisuQ>)
  - Ultimate VR Tracker (Visual SLAM based VR Tracker)  
(<https://youtu.be/yQAdfKhJRlM?si=dOepBiyha9SJi26N>)
- **Imitation Learning**
  - Dual Arms + Hands  
(<https://youtu.be/Vs-ICyzwaLc>)
  - Dual Arms  
(<https://youtu.be/WTx4ySIACAU>)
  - One Arm  
([https://youtu.be/VPG-\\_bH2SSY](https://youtu.be/VPG-_bH2SSY))
  - Multimodal (Vision + Force) Imitation Learning – On going

## 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

---

- 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

---

- 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

---

- 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

---

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

## Additional Link

---

- 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

---

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