

Woongchan Cho

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OBJECTIVES

I am a Civil Engineering major with a strong interest in robotics and AI, aspiring to develop construction robots. My research interests include reinforcement learning and robot learning, and I am currently working on quadruped robot locomotion. As an intern at the 3D Vision Lab, I am also exploring the integration of robotics with 3D vision technologies.

EDUCATION

Seoul National University (SNU)	Feb 2021 - Current
<i>B.S. Civil and Environmental Engineering & Artificial Intelligence Interdisciplinary Major</i>	
Hansung Science High School (early graduation: 4 semesters)	Mar 2019 - Feb 2021

INTERESTS

Robotics, 3D vision, Digital twin

SKILLS

Languages: C/C++, Python, PyTorch

Tools: Matlab, R, Unity

License: Information Processing Engineer, Certified Investment Manager

EXPERIENCES

TSA <i>Academic exchange program</i>	Aug 2021 – Aug 2021
<ul style="list-style-type: none"> • conference in my major field with students from the University of Tokyo and National Taiwan University 	
Visual Camp <i>Developer Intern</i>	Jul 2022 – Aug 2022
<ul style="list-style-type: none"> • worked as a Software Developer Intern at Visual Camp • focused on web crawling and data analysis 	
Tech Square <i>Research Assistant</i>	Mar 2024 – May 2024
<ul style="list-style-type: none"> • RA at Construction Company • worked on preparing investment proposals 	
3D Vision Lab <i>Undergraduate Intern</i>	Jan 2025 – Feb 2025
<ul style="list-style-type: none"> • Undergraduate intern in 3D Vision lab • Studied about NeRF, Diffusion models 	
3D Vision Lab <i>Undergraduate Intern</i>	Jun 2025 – Current
<ul style="list-style-type: none"> • Working on quadruped locomotion research • Sim2Real with go2 robot 	

PROJECTS

- Collaborated with Ant, an electronic lab notebook startup** Jan 2022 – Jan 2022
- KAIST Startup Competition
 - Proposed a product that integrated open-source features into the existing electronic lab notebook and developed a prototype.
 - Won the first prize
- Developed a VR-based kickboard simulator and driving skill evaluation system** Jul 2024 – Sep 2024
- Participated in the Creative Design Festival at Seoul National University.
 - Developed a VR-based kickboard simulator and integrated it with a game developed using Unity to create a realistic kickboard riding environment.
 - Implemented a system that evaluates driving skills, similar to an actual driving license test.
 - Won the second prize
 - Awarded 1,000,000 KRW in prize money along with an overseas study program and attendance at CES.

AWARDS AND HONORS

- Kaist Startup Competition** | *Kaist* Jan 2022
- 1st prize
- SNU Creative Design Festival** | *SNU* Sep 2024
- Gold prize (2nd)
 - Awarded 800 USD in prize money along with an overseas study program and attendance at CES.
- DB foundation scholar** | *DB foundation* 2025 - Current
- scholarship for under graduate students
 - Awarded 10,000 USD

ACTIVITIES

- SNUSV** | *Startup Club* Mar 2022 – Aug 2022
- SNUSV is the startup club at Seoul National University, where members engage in various entrepreneurship-related activities and explore global challenges. The club has produced many successful companies, and members can experience projects that often lead to actual startups. I gained hands-on experience making money and had the opportunity to meet various entrepreneurs and attend their lectures.
- Sigma** | *Robotics Club* Mar 2024 – Current
- Sigma is a robotics club affiliated with the Department of Electrical and Computer Engineering at Seoul National University. The club focuses on developing IoT products using Arduino and Raspberry Pi and also works with robotics-related programs like ROS. Members form teams to participate in various competitions, including the Creative Design Festival, which we joined this year as a club.
- Attention X** | *AI Research group* Jan 2025 – Current
- Attention X is an independent AI research group from academia (undergraduate and graduate students) and industry doing AI research aiming to publish at top conferences, develop impactful open source projects, and build unique products.
- Gongwoo (STEM)** | *Engineering club* Mar 2025 – Current
- STEM is a club-like student organization consisting of undergraduate students from various engineering fields with excellent engineering literacy.