

# JINMO KIM

POSTECH, 77, Cheongam-ro, Nam-gu, Pohang, Republic of Korea

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## EDUCATION

<b>Sejong Science High School</b>	Mar 2016 - Feb 2019
<b>B.S. in Computer Science and Engineering, POSTECH</b>	Feb 2019 - Feb 2023
GPA: 3.88 / 4.3	
<b>M.S. in Computer Science and Engineering, POSTECH</b>	Feb 2023 -
Computer Vision Lab., advised by Prof. Jaesik Park.	

## RESEARCH INTERESTS

<b>Computer Vision</b>	LiDAR-based 3D Computer Vision (SLAM, Autonomous Driving, etc.)
<b>Computer Vision</b>	Neural Rendering (NeRF)

## EXPERIENCES

<b>Research Participation in POSTECH CV Lab</b>	Undergraduate Research Participant	Sep 2021 - Present
<ul style="list-style-type: none"><li>Developed cylindrical LiDAR and omnidirectional camera hardware system.</li><li>Calibration between LiDAR and omnidirectional camera.</li><li>Investigate neural rendering methods for the camera-LiDAR system.</li></ul>		
<b>Development of 3D POSTECH Indoor Map Dataset with NeRF</b>	Developer	Apr 2022 - Present
<ul style="list-style-type: none"><li>2022 Undergraduate Group Research Program(UGRP).</li><li>Participate as developer of calibration algorithm and NeRF.</li></ul>		
<b>Development of Delivery Robot with Legged-Wheel Structure</b>	SLAM Developer	May 2021 - Jan 2022
<ul style="list-style-type: none"><li>2021 Undergraduate Group Research Program(UGRP).</li><li>Implemented 2D LiDAR integration in robot.</li><li>Developed SLAM algorithms for robot.</li></ul>		
<b>POWER-ON (Robotics Club in POSTECH)</b>	Leader	<a href="#">Club Homepage</a>
<ul style="list-style-type: none"><li>Robotics student club for undergraduates in POSTECH.</li><li>Participate as a member until the summer of 2021.</li><li>Participate as a club leader until the summer of 2022.</li></ul>		
<b>Development of Delivery Robot with Legged-Wheel Structure</b>	SLAM Developer	May 2021 - Jan 2022
<ul style="list-style-type: none"><li>2021 Undergraduate Group Research Program(UGRP).</li><li>Implemented 2D LiDAR integration in robot.</li><li>Developed SLAM algorithms for robot.</li></ul>		
<b>LaCar (Team of Korean I-Corps Program)</b>	EM(Member)	June 2020 - Feb 2021
<ul style="list-style-type: none"><li>2020 Korean I-Corps Program.</li><li>Conducted a customer discovery on solid-state LiDAR calibration system and designed a business model.</li></ul>		
<b>Event Detection and Handwritten Text Recognition in Lecture Video</b>	Leader	May 2020 - Jan 2021
<ul style="list-style-type: none"><li>2020 Undergraduate Group Research Program(UGRP).</li><li>Leader of project.</li><li>Implemented video event detection and handwritten text recognition.</li></ul>		

<b>PONIX AI Speaker (AI Speaker for POSTECH Students)</b>	Developer	May 2019 - Jan 2020
<ul style="list-style-type: none"> <li>• 2019 Undergraduate Group Research Program(UGRP).</li> <li>• Implemented STT, TTS, backend API by Python.</li> </ul>		
<b>C_oala (Dashboard for Research Papers' Topic Analysis)</b>	Leader of Algorithm Team	Jul 2019 - Dec 2019
<ul style="list-style-type: none"> <li>• Developed TF-IDF &amp; word frequency algorithm for research papers by Python.</li> <li>• Implemented LDA algorithm for research papers by Python.</li> </ul>		

## SCHOLARSHIPS & AWARDS

<b>GLP(Global Leadership Program)</b>	Merit-based Scholarship, ₩3,000,000(\$2,600)	Mar 2022
<b>Best Prize 2021 UGRP(Undergraduate Group Research Program)</b>		Feb 2022
<ul style="list-style-type: none"> <li>• Topic: Development of Delivery Robot with Legged-Wheel Structure</li> </ul>		
<b>GLP(Global Leadership Program)</b>	Merit-based Scholarship, ₩3,000,000(\$2,600)	Sep 2021
<b>GLP(Global Leadership Program)</b>	Merit-based Scholarship, ₩3,000,000(\$2,600)	Mar 2021
<b>GLP(Global Leadership Program)</b>	Merit-based Scholarship, ₩3,000,000(\$2,600)	Sep 2020
<b>Best Prize 2019 UGRP(Undergraduate Group Research Program)</b>		Feb 2020
<ul style="list-style-type: none"> <li>• Topic: PONIX AI Speaker</li> </ul>		

## SKILLS

<b>Programming Languages</b>	C/C++, Python
<b>Tools</b>	Git(GitHub, GitLab)
<b>Exposure to</b>	Machine Learning, Open3D, PCL, OpenCV, OpenGL, GLSL, Verilog

## TEACHING EXPERIENCES

<b>2022-1 CSE Student Mentoring Program</b>	Mar 2022 - Jun 2022
<ul style="list-style-type: none"><li>• Mentoring program for POSTECH CSE undergraduate students.</li><li>• Participate as mentor of <b>CSED261 Discrete Math. for Computer Science</b> course.</li></ul>	
<b>2022-1 Student Mentoring Program</b>	Mar 2022 - Jun 2022
<ul style="list-style-type: none"><li>• Mentoring program for POSTECH undergraduate students.</li><li>• Participate as mentor of <b>CSED101 Programming &amp; Problem Solving</b> course.</li></ul>	
<b>2021-2 Student Mentoring Program</b>	Sep 2021 - Dec 2021
<ul style="list-style-type: none"><li>• Mentoring program for POSTECH undergraduate students.</li><li>• Participate as mentor of <b>CSED101 Programming &amp; Problem Solving</b> course.</li></ul>	
<b>2021-1 CSE Student Mentoring Program</b>	Mar 2021 - Jun 2021
<ul style="list-style-type: none"><li>• Mentoring program for POSTECH CSE undergraduate students.</li><li>• Participate as mentor of <b>CSED261 Discrete Math. for Computer Science</b> course.</li></ul>	
<b>2021-1 Student Mentoring Program</b>	Mar 2021 - Jun 2021
<ul style="list-style-type: none"><li>• Mentoring program for POSTECH undergraduate students.</li><li>• Participate as mentor of <b>CSED101 Programming &amp; Problem Solving</b> course.</li></ul>	
<b>POSTECH x CREATOR</b> Teacher, Course Video Editor	May 2020 - Feb 2022
<ul style="list-style-type: none"><li>• Making online lecture of basic Arduino development for POSTECH undergraduate students.</li></ul>	

- Covers basic concepts of Arduino programming, complex applications such as PWM, UART, I2C, etc.

**Soc,Soc(Story Of Creativity, Story Of Camp) Camp**

Jan 2020

- Educational volunteer program.
- Teaching middle school students who cannot easily encounter science programs.
- Taught basic electronic circuit and made a creative circuit town by using copper tapes.

## **EXTRACURRICULAR ACTIVITIES**

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**StarLovers(Amateur Astronomy Club in POSTECH) Member**

Sep 2019 - Present

**Clear (Badminton Club in POSTECH) Member**

Mar 2019 - Present