

# Sungwook, Kim

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## Personalities

- Supporting with Effective Followership.
- Interested in Solving Problems and Making Things Efficient.
- Excited to Imagining and Visualizing something.

## Education

Sep. 2021	<b>Hanyang University</b> Master Course in Civil and Environmental Engineering <ul style="list-style-type: none"><li>- Track : Construction Project Management</li><li>- Laboratory : Intelligent Construction Technology Lab (ICTLAB)</li><li>- Advising Professor : Jong Won, Seo</li></ul>	Seoul, Korea
Aug. 2021	<b>Hanyang University</b> Undergraduate Course in Civil and Environmental Engineering <ul style="list-style-type: none"><li>- GPA : 4.11/4.5</li><li>- Completed Major Classes such as Construction Management, CAD for Construction, BIM, Structural Analysis and so on.</li><li>- Completed Subjects such as Creative Programming for Engineers, Science Technologies for Sustainable Development, Basic Chinese and so on.</li></ul>	Seoul, Korea

## Working Experiences

Oct. 2021 ~ Nov. 2021	<b>Platom Inc.</b> <u>Assistant</u> Has participated in activities below. <b>Developing Project of A KMO Educational Application named MO.</b> <ul style="list-style-type: none"><li>- Writing a Flow Chart and Functional Specification.</li><li>- Coworking with developers and web designers.</li><li>- Making a Slogan for MO.</li><li>- Planning functions and image-maps in website and application.</li></ul>	Seoul, Korea
Mar. 2020 ~ Sep. 2021	<b>Intelligent Construction Technology Lab of Hanyang University (ICTLAB)</b> <u>Researching Assistant</u> Has participated in activities below. <b>1. Researching project of Development of Smart Construction Technology hosted by ICT Center of Korea Expressway Corporation.</b> <ul style="list-style-type: none"><li>- Development of S-cop (Control Platform for Construction Equipments based on BIM-GIS) and C-Map (Big-Data Navigation for Construction equipments).</li><li>- Construction equipment productivity analysis method using GPS Sensor.<ul style="list-style-type: none"><li>• Distinguishing Behaviors of Construction Equipments by Time-Position data from GPS.</li><li>• Calculating filling and Cutting of Earth-volume in 3d Voxels.</li><li>• Making a Path Planning Logic with XYZ position data of 3d Voxels.</li></ul></li><li>- Application Safety Management System with UWB Positioning System and Sensors to S-cop with Kyungwoo Systec.</li><li>- Connecting with S-cop and Cloud E-BIM (A BIM Modeling Cloud Service) with DMCM.</li><li>- Lightening and Simplifying of BIM data for Cloud Service.</li></ul> <b>2. Providing BIM Construction Services for E&amp;C Companies.</b> <ul style="list-style-type: none"><li>- HDC, Incheon Yonghyun-Hakik re-development block (CITY-O-CIEL)</li><li>- 3D BIM earthwork modeling of roads and blocks by using Autodesk Civil 3D.</li><li>- Installing GCPs and Aerial Surveying by using surveying drone and lazer scanner.</li><li>- Production of Orthomosaic, Digital survey report and Pointclouds by using Pix4D and CloudCompare.</li><li>- Providing Aerial Photograph and Videos of Construction Site taken by surveying drone.</li><li>- Deukyoung E&amp;C, International New City at Godeok, Pyeongtaek city.</li><li>- Providing Maching Guidance 3D Models (MG) of roads for Construction Equipments such as excavators by using Autodesk Civil 3D.</li><li>- Installation of Positioning System by GPS Sensors for Machine Guidance.</li><li>- Taeyoung E&amp;C, Echo Delta City (EDC) in Busan.<ul style="list-style-type: none"><li>• Providing 3D BIM model of Bridge by using Autodesk Civil 3D and Autodesk Revit.</li></ul></li><li>- HOBAN E&amp;C - Reconstruction of Gaebong Residential Area 5<ul style="list-style-type: none"><li>• Installing GCPs and Aerial Surveying by using surveying drone.</li><li>• Production of Orthomosaic and Pointclouds by using Pix4D and CloudCompare.</li></ul></li></ul>	Seoul, Korea

## Club Activities

Sep. 2019 ~ Aug. 2021	<b>IMS, Central Swimming Club of Hanyang University</b> <ul style="list-style-type: none"><li>• A Member</li></ul>	
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## Awards

Aug. 2021	<b>Hanyang Award for Graduated with Summa cum laude</b> <ul style="list-style-type: none"><li>• Award for Students who graduated with GPA above 4.00</li><li>• Graduation Ranking in department : 2</li></ul>	
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## Lectures Completed

Jan. 2022	<b>Basic Web developing Course at FastCampus (K-Digital Credit)</b> <ul style="list-style-type: none"><li>• Studied about HTML/CSS/JavaScript</li></ul>	
Dec. 2021	<b>Beginner Course at BoostCourse of Naver Connect Corp.</b> <ul style="list-style-type: none"><li>• Studied about Basic of Computer Science</li><li>• Studied about Basic of Javascript</li></ul>	
Sep. 2020	<b>Engineering Development Research Center (EDRC) of Seoul National University</b> <ul style="list-style-type: none"><li>• Digital Transformation for Leaders</li></ul>	

## Personal Projects

- Hanyang University**
  - Analyzing Time and Position Data from GPS of Construction Equipments and Drawing a Graph of Probability Density Function about Behaviors of Equipments in Python and Excel.
- Fast Campus**
  - Making my Mini-blog with HTML/CSS/JavaScript.

## Language and Other skills

- Languages Native in Korean, Fluent in English
- Programming Languages Python, HTML/CSS/JavaScript
- Computer Programs MS-Office (Word, Excel, Powerpoint), AutoCAD (LOD 400), Revit (LOD 300), Civil 3D, Pix4D, CloudCompare
- Military Service ROKAF (Republic Of Korea Air Force): Apr. 2016 - Apr. 2018
- Interests Web Development (Front-End), 3D Modeling
- Hobbies Painting with a Tablet, Playing the Piano and Swimming