

# Sungwook, Kim

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## Personalities

- Supporting with Effective Follwership.
- Interested in Solving Problems and Making Things Efficient.
- Excited to Imaginating 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><li>- Dropped out in Sep. 2021</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 with 131 credits acquired.</li><li>- Completed Major Classes such as Construction Management, CAD for Construction, Building Information Modeling, 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

## Experiences

Jul. 2023 - Present	<b>SSAFY (Samsung Software Academy For Youth)</b> <u>Student</u> <ul style="list-style-type: none"><li>- 10th Generation Trainee of Embedded Track.</li><li>- Studied about Web Development such as HTML/CSS/JS, Vue.js, MySQL, Node.js, AWS.</li><li>- Studied about Embedded Development such as C/C++, Linux Programming, Shell, Rasberry pi.</li><li>- Studied about Algorithm such as DFS/BFS, Dijkstra, Union-Find, MST, Dynamic Programming and so on.</li></ul>	Seoul, Korea
May. 2022 ~ Jun. 2022	<b>42 SEOUL (La Piscine, Pre-Course)</b> <u>Pisciner</u> (A Trainee in Pre-Course) <ul style="list-style-type: none"><li>- 2nd Piscine of 7th Generation.</li><li>- Studied about Basic of C, Shell, MacOS and Computer Science.</li><li>- Co-worked and solved problems with other pisciners.</li></ul>	Seoul, Korea
Oct. 2021 ~ Nov. 2021	<b>Platom Inc.</b> <u>Part Time Job 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.</li><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><li>- Application Safety Management System with UWB Positioning System and Censors 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.</li><li>• Providing 3D BIM model of Bridge by using Autodesk Civil 3d and Autodesk Revit.</li><li>- HOBAN E&amp;C - Reconstruction of Gaebong Residential Area 5</li><li>• Installing GCPs and Aerial Surveying by using surveying drone.</li><li>• Production of Orthomosaic and Pointclouds by using Pix4D and CloudCompare.</li></ul>	Seoul, Korea

## 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.
  - Designing Logic of Making route for Construction Equipments by GPS data and 3d Voxels.
- WinAPI**
  - Making Crazy Arcade Game with C++/WinAPI
  - Portfolio Video Link : [https://youtu.be/EJj\\_PRnWfNE](https://youtu.be/EJj_PRnWfNE)

## 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 and Certifications

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>
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>

## Language and Other skills

- LanguagesNative in Korean, Fluent in English
- Programming LanguagesPython (Pandas, Matplotlib), C/C++ (WinAPI, DirectX), JavaScript(Node.js, Vue.js)
- Computer ProgramsMS-Office(Word, Excel, Powerpoint), AutoCAD, Civil 3D, Pix4D, CloudCompare, Revit, Visual Studio, VSCode, Anaconda, Ubuntu, Vim
- Military ServiceROKAF (Republic Of Korea Air Force): Apr. 2016 – Apr. 2018
- Interests3D Modeling, Programming, Algorithm
- HobbiesPainting with a Tablet, Playing the Piano