

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	Hanyang University Master Course in Civil and Environmental Engineering <ul style="list-style-type: none">- Track : Construction Project Management- Laboratory : Intelligent Construction Technology Lab (ICTLAB)- Advising Professor : Jong Won, Seo- Dropped out in Sep. 2021	Seoul, Korea
Aug. 2021	Hanyang University Undergraduate Course in Civil and Environmental Engineering <ul style="list-style-type: none">- GPA : 4.11/4.5 with 131 credits acquired.- Completed Major Classes such as Construction Management, CAD for Construction, Building Information Modeling, Structural Analysis and so on.- Completed Subjects such as Creative Programming for Engineers, Science Technologies for Sustainable Development, Basic Chinese and so on.	Seoul, Korea

Experiences

May. 2022 ~ Jun. 2022	42 SEOUL (La Piscine, Pre-Course) <u>Pisciner</u> (A Trainee in Pre-Course) <ul style="list-style-type: none">- 2nd Piscine of 7th Generation.- Studied about Basic of C, Shell, MacOS and Computer Science.- Co-worked and solved problems with other pisciners.	Seoul, Korea
Oct. 2021 ~ Nov. 2021	Platom Inc. <u>Part Time Job Assistant</u> Has participated in activities below. Developing Project of A KMO Educational Application named MO. <ul style="list-style-type: none">- Writing a Flow Chart and Functional Specification.- Coworking with developers and web designers.- Making a Slogan for MO.- Planning functions and image-maps in website and application.	Seoul, Korea
Mar. 2020 ~ Sep. 2021	Intelligent Construction Technology Lab of Hanyang University (ICTLAB) <u>Researching Assistant</u> Has participated in activities below. 1. Researching project of Development of Smart Construction Technology hosted by ICT Center of Korea Expressway Corporation. <ul style="list-style-type: none">- Development of S-cop (Control Platform for Construction Equipments based on BIM-GIS) and C-Map (Big-Data Navigation for Construction equipments).• Construction equipment productivity analysis method using GPS Sensor.• Distinguishing Behaviors of Construction Equipments by Time-Position data from GPS.• Calculating filling and Cutting of Earth-volume in 3d Voxels.• Making a Path Planning Logic with XYZ position data of 3d Voxels.- Application Safety Management System with UWB Positioning System and Sensors to S-cop with Kyungwoo Systec.- Connecting with S-cop and Cloud E-BIM (A BIM Modeling Cloud Service) with DMCM.• Lightening and Simplifying of BIM data for Cloud Service. 2. Providing BIM Construction Services for E&C Companies. <ul style="list-style-type: none">- HDC, Incheon Yonghyun-Hakik re-development block (CITY-O-CIEL)<ul style="list-style-type: none">• 3D BIM earthwork modeling of roads and blocks by using Autodesk Civil 3d.• Installing GCPs and Aerial Surveying by using surveying drone and lazer scanner.• Production of Orthomosaic, Digital survey report and Pointclouds by using Pix4D and CloudCompare.• Providing Aerial Photograph and Videos of Construction Site taken by surveying drone.- Deukyoung E&C, International New City at Godeok, Pyeongtaek city.<ul style="list-style-type: none">• Providing Maching Guidance 3d Models (MG) of roads for Construction Equipments such as excavators by using Autodesk Civil 3d.• Installation of Positioning System by GPS Sensors for Machine Guidance.- Taeyoung E&C, Echo Delta City (EDC) in Busan.<ul style="list-style-type: none">• Providing 3D BIM model of Bridge by using Autodesk Civil 3d and Autodesk Revit.- HOBAN E&C - Reconstruction of Gaebong Residential Area 5<ul style="list-style-type: none">• Installing GCPs and Aerial Surveying by using surveying drone.• Production of Orthomosaic and Pointclouds by using Pix4D and CloudCompare.	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

Club Activities

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

Aug. 2021	Hanyang Award for Graduated with Summa cum laude <ul style="list-style-type: none">• Award for Students who graduated with GPA above 4.00• Graduation Ranking in departmen : 2
Sep. 2022	Programmers : PCCE (Python 3) Lv.2 <ul style="list-style-type: none">• Score : 603 / 1000

Lectures Completed

Jan. 2022	Basic Web developing Course at FastCampus (K-Digital Credit) <ul style="list-style-type: none">• Studied about HTML/CSS/JavaScript
Sep. 2020	Engineering Development Research Center (EDRC) of Seoul National University <ul style="list-style-type: none">• Digital Transformation for Leaders

Language and Other skills

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| • Languages | Native in Korean, Fluent in English |
| • Programming Languages | Python (Pandas, Matplotlib), C/C++ (WinAPI, DirectX) |
| • Computer Programs | MS-Office(Word, Excel, Powerpoint), AutoCAD, Civil 3D, Pix4D, CloudCompare, Revit, Visual Studio, VSCode, Anaconda |
| • Military Service | ROKAF (Republic Of Korea Air Force): Apr. 2016 – Apr. 2018 |
| • Interests | 3D Modeling, Game, Unreal Engine |
| • Hobbies | Painting with a Tablet, Playing the Piano |