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**	Seoul, Korea

Master Course in Civil and Environmental Engineering
- Track : Construction Project Management
- Laboratory : Intelligent Construction Technology Lab (ICTLAB)
- Advising Professor : Jong Won, Seo
- Dropped out in Sep. 2021

Aug. 2021	**Hanyang University**	Seoul, Korea

Undergraduate Course in Civil and Environmental Engineering
- 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.

Experiences

May. 2022 ~ Jun. 2022	**42 SEOUL (La Piscine, Pre-Course)**	Seoul, Korea

Pisciner (A Trainee in Pre-Course)
- 2nd Piscine of 7th Generation.
- Studied about Basic of C, Shell, MacOS and Computer Science.
- Co-worked and solved problems with other pisciners.

Oct. 2021 ~ Nov. 2021	**Platom Inc.**	Seoul, Korea

Part Time Job Assistant

Has participated in activities below.

Developing Project of A KMO Educational Application named MO.
- 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.

Mar. 2020 ~ Sep. 2021	**Intelligent Construction Technology Lab of Hanyang University (ICTLAB)**	Seoul, Korea

Researching Assistant

Has participated in activities below.

1. Researching project of Development of Smart Construction Technology hosted by ICT Center of Korea Expressway Corporation.
- 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.
  - Distingushing 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 Censors 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.
- HDC, Incheon Yonghyun-Hakik re-development block (CITY-O-CIEL)
  - 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.
  - 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.
  - Providing 3D BIM model of Bridge by using Autodesk Civil 3d and Autodesk Revit.
- HOBAN E&C - Reconstruction of Gaebong Residential Area 5
  - Installing GCPs and Aerial Surveying by using surveying drone.
  - Production of Orthomosaic and Pointclouds by using Pix4D and CloudCompare.

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

Club Activities

Sep. 2019 ~ Aug. 2021	**IMS, Central Swimming Club of Hanyang University**	

- A Member

Awards and Certifications

Aug. 2021	**Hanyang Award for Graduated with Summa cum laude**	

- Award for Students who graduated with GPA above 4.00
- Graduation Ranking in department : 2

Sep. 2022	**Programmers : PCCE (Python 3) Lv.2**	

- Score : 603 / 1000

Lectures Completed

Jan. 2022	**Basic Web developing Course at FastCampus (K-Digital Credit)**	

- Studied about HTML/CSS/JavaScript

Sep. 2020	**Engineering Development Research Center (EDRC) of Seoul National University**	

- Digital Transformation for Leaders

Language and Other skills

• 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