Sungwook, Kim

Address : Seocho-gu, Seoul, Korea
Mobile : +82 10 9448 7210   E-mail : bluebear9508@naver.com
GitHub : github.com/WooKeykim95
Linkedin : linkedin.com/in/sungwook-kim-b26aba228/

Personalities

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

Education

Mar.2019 - Aug. 2021
(30 monthes)

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.

Mar.2014 ~ Feb. 2016
(24 monthes)

Yonsei Univerty (Wonju Campus)   Wonju, Gangwon-do, Korea
Undergraduate Course in Physics
- GPA : 3.50/4.3 with 75 credits acquired.
- Completed Major Classes such as Basic Electromagnetics, Modern Physics, Statistics, Calculus and so on.
- Completed Subjects such as Leadership Development, Social Science and Social Welfare and so on.
- Completed 4th Semester on Feb. 2016 and Withdrawn on Sep. 2018

Experiences

Jul. 2023 - Present

SSAFY (Samsung Software Academy For Youth)   Seoul, Korea
Student
- 10th Generation Trainee of Embedded Track.
- Studied about Web Development such as HTML/CSS/JS, Vue.js, MySQL, Node.js, AWS.
- Studied about Embedded Development such as C/C++, Linux Programming, Shell, and Raspberry pi.
- Studied about Algorithm such as DFS/BFS, Dijkstra, Union-Find, MST, Dynamic Programming and so on.

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
- Portfolio Video Link : https://youtu.be/EJj_PRnWfNE

SSAFY (1st Semester)
- Developing Auto-Follow-Driving-System with using Linux, Python, AWS IoT System, RC Car, Raspberrypi. (Group Project with 4 people.)
- MY Part : Developing Driving Control Part with using Python.
- PPT Presentation Link : https://github.com/WookeyKim95/RCCar_Following_Driving/blob/main/Embedded_RCCar_Project.pdf

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

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, Linux), JavaScript(Node.js, Vue.js)
• Computer Programs	MS-Office(Word, Excel, Powerpoint), AutoCAD, Civil 3D, Pix4D, CloudCompare, Revit, Visual Studio, VSCode, Anaconda, Ubuntu, Vim
• Military Service	ROKAF (Republic Of Korea Air Force): Apr. 2016 – Apr. 2018
• Interests	3D Modeling, Programming, Algorithm
• Hobbies	Painting with a Tablet, Playing the Piano