

Mankyu Jang

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[Skills]

Design tools

- Adobe products (Photoshop, Illustrator, Indesign) – Expert
- Autodesk products (Autocad, Revit, Navisworks Manage) – Expert
- Sketchup – Expert

Programming languages

▷ C#

- Capable of understanding syntax.
- Experienced scripting and creating small plug-ins for design software - zerotouch

▷ Python

- Capable of designing class object that suitable for data flow
- Experienced scripting and creating BOQ calculator as per the WBS

▷ Java Script

- Capable of understanding syntax.

▷ Dynamo & Generative Design

- Capable to write code to automate parts of the BIM process
 - Compression of massive dynamo code through Python Node
 - Possible to develop a program that finds the optimal value within a controlled variable range through dynamo and generative design
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[EXPERIENCE]

As Architectural Engineer

Hyundai Engineering - Seoul Architectural Design Engineer 2016 – 2022

Project:

- Therma Visayas 2*150MW CFB Power Plant
- Ras Laffan C IWPP AS (Technical Support)
- Ashganj East 400MW CCPP (bidding)
- Takhiatash Power Plant Efficiency improvement Project
- Hyundai Motor Ulsan Factory Combined Heat and Power Plant

Role:

- Produce layout based on client's requirement.
- Co-work with architectural design firm to produce construction document.
- Resolve and coordinate various issues may occur while in design process.
- Review and modify architectural/structural construction document.
- Corporate with construction engineer as full time field engineer in site.
- Clash check and eliminate with responsible party.

Work description:

As I experienced design and construction through a number of overseas EPC projects, I gained experience in the overall construction process. Through that experience, I have been thinking a lot about where time loss occurs during the design and construction process and what parts can be optimized. For me, the main concern was how to build automation and efficiency through computer systems in the field of architecture.

As BIM Process Manager

Hyundai Engineering - Seoul BIM Manager 2019 - 2022

Role:

- Analyze existing design process and regroup with BIM base.
- Produce Concept of BIM bidding design.
- Produce Concept of BIM execution design.
- Develop Module of BOQ calculation as per WBS. (Dynamo + Python)
- Develop Module of Bid automation tool. (Dynamo + Python)
- Develop Automated room placement program prototype. (Dynamo + Python + Generative Design)

Work description:

As soon as I returned from the field as a BIM manager, I came up with various BIM process ideas. In order to transform the existing design process into a BIM-based, all design phases were conceptually divided. And the process was established by arranging the necessary elements for each step in a form that can be imported into Revit and Dynamo.

[EDUCATION]

Bachelor of Architecture
Korea University, 2016

