Reflection

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Studio

Name of Studio: Architectural Engineering
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Method and Argument

My technique fascination of the complex geometry and how to materialize the complex form by timber construction led me to thesis project-the renovation of the van Gendt hallen project. By replacing the existing roof of van Gendt hallen into a double curved large roof, the new timber roof system is tested.

Research and Design

The research is quite independent at first, acting as the tool box of the design. It’s a new system of timber construction by the CNC milling combining with the steel joint by the 2d-cutting. At the same time, the complicated timber roof could contribute to the van Gendt hallen’s existing situation. Adding a new active layer into the vacant factory hall and improve the not so good climate situation in this factory. With the design process going on, I gradually found out that the timber roof could also have a spatial meaning in this renovation project. So the research and design combines together forming the discourse that the technical research and study could improve the architectural atmosphere in a building and enhance the architecture theme.
The theme of AE and my thesis project

I think being specific is how does AE studio make a difference among others, challenging its students to be specialists at certain fields. The comfort in terms of sustainability and smartness of structure and construction are highlighted by the studio, ambition of individuals are encouraged though. As to my project, integrated design was implemented going through all aspects of the building, complex geometries were transferred to architectural substances in a coherent environment, from constructing to image conveying.

The theme of AE and my thesis project

The approach of AE and my method

Thanks to AE studio for giving us a well organised guideline which really works, I’ve learned what is beyond my expectation, especially after certain frustrating trials. Firstly, during the research phase, a professional paper was asked for so that I dived in to relating literature and cases studies. I learned computational scripting to be more skilled and less restricted in the workflow of digital design. Then, I faced the problem of how to renovate a building and how to deal with the building technology things such as climatization / insulation and rain collection.

The project in wider social context

The whole year period of design gives me a good chance to think of architectural design in a remarkably comprehensive context, both of building technology and architectural theory. How the architectural design combine with the technical development and how we could deal with historical buildings with our new attitude.