Graduation Plan Josje Hemmes

Tutor Engbert van der Zaag,
External Examiner Ype Cuperus

Personal information
Name   Josje Meis Hemmes
Student number  1257161
Address   Vlamingstraat 50 A
Postal code  2611 KX
Place of residence  Delft
Telephone number  06-23926039
E-mail address  josjehemmes@gmail.com

Studio
Theme   Sustainability and Design Development
Teachers   Engbert van der Zaag
Motivation   Interesting complex assignment, intriguing city of New York

Title
Title of the project   Environmental Council for the United Nations Headquarters in New York (UNEC)

Product
Problem Statement
How to provide the United Nations Headquarters with a new building for the Environmental Council that combines various requirements derived from the city, the direct environment, the program and the representation?

More specifically: The location is an exceptional spot in the Manhattan grid, how does the future UNEC fit in this strictness and this exception? The existing UN Headquarters
complex is an icon of modern architecture, what is the position of the new building towards this? The programmatical requirements together with structure, security, and logistics make up a complex question, how can that be organized in a clear way? And finally, the building should represent the topic of sustainability in an understandable way to express the goal of the UNEC, how can this aspect contribute to the architecture?

**Goal**

The goal of the project is to answer the research questions in a solid way and learn as much as possible during this process. By designing the UNEC, I think all the important aspects in architecture will come along.

The vision of the chair of Materialisation in Architecture of TU Delft in which I am graduating is that the developing of your ideas in the design will generate input for the very design. The goal is to use this input at the right strategic times in the process to be able to let the design develop smoothly. My personal goal is to work according to this approach and get a better grip on the complex creative and engineering process of designing architecture. When I have designed a building in which everything that it intends to be comes together with the structure of it, I am satisfied.

**Process**

**Method description**

The opinion of the Materialisation chair is that “in practice, a good design process is primarily characterized by the combination of sound research and the timely use or request for more input” (van Bennekom, 2012).

My experience is that the switching between different scales, using various types of input and thinking forward generate the richest plans. This input can be found in various sources like historical books, geographical maps, theoretical essays, material properties, urban dynamics, philosophize, visit the site, talk with fellow students, getting advise by the main tutor and the building technology tutor, sketching, working on my plan in computer programs, etcetera.
Literature and general practical preference


Reflection
Relevance

Gradually the world becomes more and more aware of the environmental consequences of human activities on this planet. The main areas of attention are solving the waste problem, solving the energy problem and the preservation of biodiversity.

While some countries are at the battle front of developing techniques and policies to mitigate the unpleasant side effects of humanity, other countries ignore the topic, for various reasons. To coordinate these developments and to make the efforts more effective, a global institute could be very helpful. The United Nations have councils to deal with Security, Economical, Social and Judicial issues. It is only logical to add another one; the Environmental Council, to provide a firm basis for the worldwide coordination of sustainable measurements.

Also, the positioning as an architect next to the modern architecture literally and theoretically is a present-day and probably never ending topic. In the first place, positioning yourself anywhere in the architectural discourse is a pretty big challenge, in which I will probably not succeed during this graduation project. More contemplation on this subject is to be found in my essay for the course Research Methods, in the attachment of this document.

Time planning

<table>
<thead>
<tr>
<th>Q1</th>
<th>Q2</th>
<th>Q3</th>
<th>Q4</th>
</tr>
</thead>
<tbody>
<tr>
<td>· Masterplan design with the group</td>
<td>Work towards P2</td>
<td>Work required for P3</td>
<td>Work required for P4</td>
</tr>
<tr>
<td>· Research with the group</td>
<td>· Urban situation 1:1000 / 1:500</td>
<td>· plans, facades, cross-cuts, 1:200 / 1:100</td>
<td>· theoretic and thematic support of research and design + reflection on architectonic and social relevance</td>
</tr>
<tr>
<td>· Security Box Design</td>
<td>· Design drawings (plans, cross-cuts, facades) 1:200</td>
<td>· part of the building, plan and cross-cut 1:50</td>
<td>· situational drawing</td>
</tr>
<tr>
<td>· Facade design</td>
<td>· Give direction towards next quarter</td>
<td>· façade fragment with hor. and vert. cross-cut 1:20</td>
<td>· architectural drawings</td>
</tr>
<tr>
<td>· Design individually</td>
<td>· Graduation plan</td>
<td>· details 1:5</td>
<td>· fragment and details</td>
</tr>
<tr>
<td>PLUS:</td>
<td>PLUS:</td>
<td>PLUS:</td>
<td>Work required for P5</td>
</tr>
<tr>
<td>· Strategic Models (3 ects)</td>
<td>· Finish Research Methods (6 ects)</td>
<td>· Finish Smart &amp; Bioclimatic Design Theory (3 ects)</td>
<td>· the same but then polished to perfection</td>
</tr>
<tr>
<td>· Future Envelope (3 ects)</td>
<td>· Student Assistant Job</td>
<td>· Student Assistant Job</td>
<td>· modeling</td>
</tr>
<tr>
<td>· Smart &amp; Bioclimatic Design Theory (3 ects)</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>