

Graduation Plan: All tracks

Submit your Graduation Plan to the Board of Examiners (Examencommissie-BK@tudelft.nl), Mentors and Delegate of the Board of Examiners one week before P2 at the latest.

The graduation plan consists of at least the following data/segments:

Personal information	
Name	Uijeong Lee
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Studio	
Name / Theme	Complex Projects/Body Building Berlin
Main mentor	Benjamin Groothuijse Architecture
Second mentor	Georgios Karvelas Building Technology
Argumentation of choice of the studio	In contemporary society, buildings are getting more and more complicated as their size is also increasing. Those complex buildings have various compound programs, users, and clients. In this realistic situation, learning about designing these complex projects and solving problems in them is one of the vital abilities to be an architect. On top of that, Complex Projects connect this design process with major subjects of current society, for example, health or digitalization. This multifaceted approach is crucial to prepare for the time when students will work in the actual architecture field. For these reasons, I chose to study in Complex Projects for my graduation studio.

Graduation project	
Title of the graduation project	Music Bunker – Commemorative Performing Arts Space
Goal	
Location:	Fichtestraße 6, 10967 Berlin, Germany
The posed problem, research questions and design assignment in which these result.	Unused historic bunker and memory of wound of the city How can a bunker turn into a performing arts venue to heal Berlin's historical wounds by reusing historical remnants of the city? Design strategy to renovate a former gasholder and bunker into a performing art center

The graduation project "Musica Bunker - Commemorative Performing Arts Space" aims to find an adaptable design strategy to sustainably reuse a historical bunker and gasometer as a performing arts center. This will contain a main design idea and its spatial strategy to commemorate the significance of the existing building and its related urban historical context. In addition, to realize this idea, the structural and technological strategy will also be explored for sustainable and elaborate design.

Process

Method description

In the beginning phase of the project, mixed methods of descriptive research such as case studies and observations, correlational research, and survey methodology are adopted to answer what type of performing art center should be located in which location and who will be the clients and users of the building. (Program, site, and client) Furthermore, this initial research includes statistical results and research theory from the field of psychosocial to define the relationship between historical trauma and performing arts and relate it to architectural design. In the design phase, a case study will be the main methodology to define the spatial relationships, the size of the rooms, and structural issues.

Literature and general practical references

Throughout the whole process, Literature such as "Strong, Judith. Theatre Buildings: A Design Guide. Routledge, 2010.", "Guyer, J. Paul. An Introduction to Architectural Design: Theatre and Concert Hall Acoustics and Communications. CreateSpace, 2014. ", "Newhouse, Victoria. Site and Sound: The Architecture and Acoustics of New Opera Houses and Concert Halls. Monacelli Press, 2012." "Bauert, Monika, and Ulf Buschmann. Berliner Theater. Berlin Story Verlag, 2014." and "Hammond, Michael. Performing Architecture: Opera Houses, Theatres and Concert Halls for the Twenty-First Century. Merrell, 2006." are referred to the study of theater design basics. On the other hand, for studying the historical and general urban context, "Bodenschatz, Harald. Berlin Urban Design. Dom Publishers, 2010." "Broadbent, Philip. Berlin Divided City: 1945 - 1989; Second German Studies Workshop on "Berlin Divided City, 1945 - 1989," Which Took Place at the University of Texas at Austin. Berghahn Books, 2012." and "Ward, Simon. Urban Memory, and Visual Culture in Berlin. Amsterdam University Press, 2016." are referred as reference literature. Also, "Oevermann, Heike, et al. Open Heritage: Community-Driven Adaptive Reuse in Europe: Best Practice. Walter de Gruyter GmbH, 2023." and Baum, Martina. City as Loft Adaptive Reuse as a Resource for Sustainable Urban Development. GTA Verlag, 2014. are viewed to explore the idea of adaptive reuse.

Reflection

- What is the relation between your graduation (project) topic, the studio topic (if

applicable), your master track (A,U,BT,LA,MBE), and your master programme (MSc AUBS)?

The graduation project topic above forms the basis of an empirical investigation into the validity and effectiveness of utilizing historical remnants in the spatial design of the Berlin Performing Arts Center and aims to provide valuable insights into the intersection of cultural heritage, architectural design, and performing arts by integrating concepts of cultural memory, spatial aesthetics, and historical context. This research and design process draws on essential qualities in the field of architecture, which shows that the subject is related to the comprehensive fields of complex architectural design, urban history, and the reuse and technology of historical buildings.

- What is the relevance of your graduation work in the larger social, professional and scientific framework.

This project is about how not to demolish a historically significant building and reuse it as a performing arts space. By preserving existing structures it can reduce carbon footprint and save resources. So not only does this research suggest how future complex performing arts centers can be built in an environmentally sustainable way through adaptive reuse, but it also suggests how honoring the painful history of cities and respecting those urban historical contexts when designing buildings becomes a socially sustainable design method.