

Graduation Plan

Master of Science Architecture, Urbanism & Building Sciences



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	S.M. Luider
Student number	4813030
Telephone number	
Private e-mail address	

Studio		
Name / Theme	Urban Architecture MSc3 spring ° Craft in the city	
Main mentors	Ir. M.E. Stuhlmacher Dr. L.G.A.J. Reinders	Architecture Anthropology
Second mentor	Ir. G.Y. Warries	Building Technology
Argumentation of choice of the studio	Knowledge about crafts can influence design skills within architecture. Can architecture also increase the possibilities within a craft(school)? I would like to gain more knowledge about crafts(schools) and how crafts can improve modern buildings and how architecture can influence possibilities in new developments in craftsmanship. To summarize I like to make a link between craftsmanship and architecture in both directions.	

Graduation project	
Title of the graduation project	The interaction of architecture and craftsmanship combined in a brickwork craft school building for silver- and goldsmithing in Delfshaven
Goal	
Location:	Location of architectural project: A suburb in the Western part of the city center of Rotterdam. The address of the street is: Pelgrimsstraat, 3029 BH Rotterdam, The Netherlands
The posed problem,	The digitalization and robotization of labor introduced the loss of many vocational schools and crafts in Europe. Also in The Netherlands, the attraction of vocational skilled knowledge is largely diminished in the last decades and the numbers of students and trainees are decreasing for that reason. (S. Pietsch, 2018) In 2017 the vocational school for silver- and goldsmithing in Schoonhoven

	The Netherlands threatened to disappear. A local political lobby ensured that the institute was preserved and with substantial investments in equipment the school got a new start. (Laan, 2017) However, investments to modernize the school building was not obtained and for that reason a new designed craft school is needed to give this special direction of craftsman ship new possibilities. By designing a new building in which the crafts of silver and goldsmiths, jewelers and watchmaking are shown to a wide audience in a large city as Rotterdam, it is possible to interest nationwide a wide audience for craftsmanship. It is important that the building has an open and accessible character for the audience but also for the general public. The latter can proceed to view and purchase artisanal produced products, which benefits the interaction of students, teachers and public. We have chosen for a location that have all these criteria: public transport, public meeting point, rooftop park, monumental characters, and old harbors.
research questions and	Main research question: How can a silver- and goldsmith school building be designed that is stimulating students in professional skills and is part of the urban context in Rotterdam? Sub-questions: - How to present the work of the silver- and goldsmithing to a wider audience in the city of Rotterdam? (museum, conferences, courses for public interest) - How can architectural brickwork design being used in a way that it inspires students interested in silver- and goldsmith craftsmanship education? - What is different compared to the old situation? What can be remained and what ought to be different.
design assignment in which these result.	An architectural design for a silver- and goldsmithing craft school in Rotterdam Delfshaven. The design will consist of different scales, from the large stone architectural design to exact details. Building technology will be involved in the design.

Process

Method description

Literature study of craft schools in various countries.

Detailed study of the craft school in Schoonhoven including history.

Searching a space in a large city that can harbor a school for 600 students with housing.

Design a building that fits in the surrounding and that emphasize the craftsmanship most preferably combining craftsmanship in the city.

Physical Model that gives a creative process to come to the most ideal building. Also photography is included to assist in the creative process to realize an inspiring building that gives ample possibilities for a wide range of craftsmanship in silver and goldsmithing.

Literature and general practical preference

Case studies:

Pietsch, S., Schreurs, E., Mandias, S., & Broekhuizen, D. (2018). The New Craft School. Amsterdam, Nederland: Adfo Books.

McCarter, R. (2015). Aldo Van Eyck. Amsterdam, Nederland: Amsterdam University Press.

Materials:

Campbell, J. W. P., & Pryce, W. (2016). Brick : a World History (1ste editie). Tielt, Belgie: Thames & Hudson Ltd.

Mulder, K. (2016). Het zinderend oppervlak. Delft, Nederland: Koen Mulder architect & bouwtechnoloog.

Wingerder, J. P. (2013). Brick - An Exacting Material (1ste editie). Amsterdam, Nederland: Amsterdam University Press.

Books:

Sennett, R. (2009). The Craftsman. Amsterdam, Nederland: Adfo Books.

Websites:

González, M. F. (2018, 17 oktober). School Architecture: 70 Examples in Plan and Section. Geraadpleegd van <https://www.archdaily.com/897774/school-architecture-70-examples-in-plan-and-section>

Dejtjar, F. (2019, 5 maart). 16 Details of Impressive Brickwork. Geraadpleegd van <https://www.archdaily.com/797369/16-details-of-impressive-brickwork>

Ambachtopleidingen Vakschool Schoonhoven | Zadkine | mbo opleidingen Rotterdam, Capelle, Hoogvliet, Schiedam, Spijkenisse. (2020). Geraadpleegd van <https://www.zadkine.nl/StuderenBijZadkine/Studiewijzer/Colleges/Vakschool%20Schoonhoven.aspx>

Reflection

1. 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 focus in my education in TU Delft is architecture in all its directions. I like to design new buildings especially large and public buildings but also restorative topics has for sure my attention.

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

Social impact

The social impact of buildings for mankind is enormous. We live almost half or more of our life in buildings. How these buildings are designed has influence on how we feel and how we perform our work. Aspects of light, temperature and air handling is eminent, to bring this together with new developments in craftsmanship and new challenges such as climate change, and possibly social distancing is fascinating and will have a large stamp on society.

Professional impact

Learning how to design new buildings with specific functions will help me in acquiring jobs and tasks in society.

Scientific and art framework

Architectural design can be reached by a thorough study of for instance relevant history, function required for a building, building technology. However, to realize a specific form and the impression of a building can be not just science but also pure art and for that reason can be very personal. The combination of science and art makes architecture quite interesting because a fixed reasoning as in other science oriented studies as astronomy, physics and biology can not be applied. The hybrid nature of architecture makes it an adventure to combine an intellectual approach with art and craftsmanship.