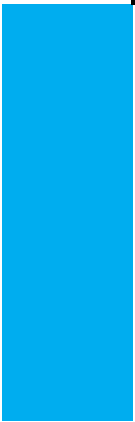


Graduation Plan

Master of Science Architecture, Urbanism & Building Sciences



Graduation Plan: All tracks

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

Personal information	
Name	Julian Geelhoed
Student number	4012909 (wordt gebruikt voor koppeling met student file)
Telephone number	0642253278
E-mail address	j.geelhoed@hotmail.com
Studio	
Name / Theme	Studio 13 / Underwater Engineering
Teachers	Job Schroën
Argumentation of choice of the studio	I've always been interested in the technical aspect of our built environment. In Architectural Engineering I have the opportunity to define my own graduation project and work on unusual projects.
Graduation project	
Title of the graduation project	Construction of an underwater habitat for long term research of marine life in the Great Barrier Reef.
Goal	
Location:	Great Barrier Reef, Australia
The posed problem,	The Great Barrier Reef is in danger of pollution and the changing climate. In order to protect this UNESCO world heritage site we need to know more about it. Diving from the surface to the reef to conduct research is expensive and time consuming.
research questions and	<i>How to design an underwater research habitat, which facilitates saturation diving and research at The Great Barrier Reef?</i>
design assignment in which these result.	An underwater habitat which can facilitate divers during their research of the Great Barrier Reef.
<p>This should be formulated in such a way that the graduation project can answer these questions. The definition of the problem has to be significant to a clearly defined area of research and design.</p>	

Process

Method description

Literature studies, Case studies and Research by Design.

Literature and general practical preference

Literature:

Lunniss, R. & Baber, J. (2013). Immersed Tunnels. Boca Raton: CRC Press

Brunner, B. (2005). The Ocean at Home: An Illustrated History of the Aquarium. New York: Princeton Architectural Press

Case study: Aquarius, Florida Keys

Reflection

Relevance

Underwater engineering is a relatively new subject and something architecture has never touched upon. My research can help explore these new world and make a proposal how it could be colonized.

Time planning

Research and Preliminary Design, Main concept

23/01/15 P2 Presentation

Development of PD, BT, C & A

15/05/15 P3 Presentation

Final design changes

31/05/15 P4 Presentation

Final presentation & model

XX/08/15 P5 Presentation