

# Graduation Plan

Pawel K. Krynski

(under construction)

## Personal Information

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## Studio

Name of studio: Architectural Engineering  
Teachers: Roel van de Pas, Pieter Stoutjesdijk

## Argumentations of choice of the studio:

Hands on approach  
No fixed topic  
Good tutors

## Title

### Architecture for Emergent Craftsmen

Digitally fabricated customizable hybrid for makers and craftsmen.

## Graduation Project

### Problem Statement

The Marine terrain in Amsterdam is an abandoned marine military base in the very heart of Amsterdam. This prestigious location needs an idea for reuse and redevelopment as the municipality of the city is open to test and experiment of different strategies. How to create revenue without forsaking this location for huge corporations but maybe for those who put their first steps in business and need guidance and cooperative? How to link this to the newest technologies while not forgetting the preferred, green character of this district? How to address the changes in workplaces after the 2008 financial crisis in the shadow of Amsterdam coming up leadership as the financial capital of Europe?

## Objective

**I am aware that this location needs a function that will contribute both to social conditions and will answer financial aspects of this site and bring revenue. Therefore in the possible solution I will seek for a function that will cover both needs.**

Hybrid: Intention of this graduation is to design a toolbox of technical solutions for customizable offices [revenue] + houses [liveability] for craftsmen and entrepreneurs, mass customizable and produced using the digital manufacturing methods.

**The aim of this project is to design a multileveled office/workshop + apartment hybrid building produced locally by digital fabrication tools.**

## Overall design question

How can I design a building system for mass customized, temporary building consisting of workplaces + apartments for makers and craftsmen using digital fabrication tools?

## Thematic Research Question

1. How can I implement fiberglass into CNC milled building systems?
2. How can I merge communities – the new creative collaboration living in my building and the outside neighbours?
3. What else can my reconfigurable building provide for the users? What is the fun side of it?

## Methodologies

- Literature study – books, articles, theses, manuals, tutorials etc.
- Reference project analysis
- Research by design, methods of trial and errors on materials and machines, trying out with different joints on variety of materials.
- Hands on model testing
- Interviews
- Visits to workshops
- Product development
- Multiple evaluations

## Planning

See attached.

## Relevance

This project will contribute to solving and answering several needs.

1. It is a strategy proposal for the Marine terrain which as a high quality location needs an idea for development. On the other hand it is an experiment both on architectural and financial level which suits this location.
2. It will be an exploration on digital fabrication materials and their application which will give an overview

on what technique can be used for which part of a building.

3. The project fills the gap of using digital fabrication tools for bigger scale buildings and developments.
4. This project touches also the problem of vacant office buildings. A temporary office building might be a solution for this issue – instead of building an office which might be not used in the future it is maybe better to produce a temporary one.

