

OSKAR GRAM NIELSEN

ARCHITECTURAL ENGINEER



DETAILS

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PROFILE

As a recent graduate in Architectural Engineering from DTU, I have developed a strong foundation in computational design. Alongside my academic work, I have nearly two years of experience at Gehl, an architecture studio, where I gained vast experience in visual programming and environmental simulations. My master's thesis, completed in collaboration with Rambøll, showcased my programming abilities in developing an LCA tool, gaining a deep understanding of the importance of integrating data-driven approaches into the field of architectural engineering. As a self-motivated individual, I constantly explore new technologies to enhance my skillset to leverage efficiency in the field of AEC. I am passionate about utilizing my skills and knowledge to contribute to the growth and success of any team I am a part of.

SOFTWARE

Rhino



Excel



Grasshopper



Python



Revit



C#



Dynamo



Adobe Package



EDUCATION

TECHNICAL UNIVERSITY OF DENMARK (DTU), KONGENS LYNGBY, DENMARK

2017-08 → 2023-02

Master of Science (MSc) in Architectural Engineering.

GPA: 11.06 (9.95 incl. courses outside of Arch. Eng. department)

Thesis, M.Sc. *"Building a system architecture capable of representing LCA"*

- Develop a cloud and BIM-based LCA tool that interoperate with Revit and LCAbyg.
- Demonstrate the tool on a case study and evaluate the speed and accuracy of the tool.

Thesis, B.Sc. *"Micro-scale analysis of open urban waterscapes in early design stages"*

- Analyze and evaluate the particle simulation method in Blender to implement open urban waterscapes early in the design phase.

POLYTECHNICAL UNIVERSITY OF HONG KONG (POLYU), HONG KONG, CHINA

2019-09 → 2019-12

Student exchange program in Architectural Engineering.

SCT KNUDS GYMNASIUM (HIGH SCHOOL), ODENSE, DENMARK

2013-08 → 2016-06

XAVIER CATHOLIC SCHOOL (HIGH SCHOOL), LENNOX HEAD, AUSTRALIA

2012-08 → 2013-05

EXPERIENCE

STUDENT ASSISTANT GEHL ARCHITECTS



2021-05 → 2023-03

My role was part of the Innovation team and included visual programming and environmental simulations using various tools such as Grasshopper, Python and Excel. Further, I simulated air quality simulations in the urban environment in Grasshopper and ENVI-met. In support of daily operations, I also developed custom scripts and conducted research as needed.

STUDENT ASSISTANT RUDERSDAL MUNICIPALITY



2020-01 → 2021-02

The student job consisted of analyzing and registering building components and installations on institutions in the municipality. The software I used was mainly Excel and Revit.

PARTICIPANT SOLAR DECATHLON



2020-09 → 2021-12

An international competition that aims to design and build a sustainable and innovative house, based on renewable energy held in China. I was mainly responsible for optimizing the roof for maximum power output and tasks concerning energy and indoor climate.

Additionally, I received a Blue Dot Diploma for an extraordinary effort for participating in this sustainable project. <https://blue-dot.dtu.dk/english>

PARTICIPANT OPEN INNOVATION X (OI-X)



2018-11

Competition for students focusing on solving the Sustainable Development Goals with companies from a building-related perspective (*"sponsor-based initiative at DTU aimed at all students interested in working on challenges provided by industry"*).

OFFICE ASSISTANT FREDERIKSBERG MUNICIPALITY



2018-06 → 2018-09

A temporary job managing the data of Frederiksberg Municipality's citizens in Excel.

OTHER JOBS

2014 → 2017

SKI INSTRUCTOR, NISEKO BASE SNOWSPORTS, JAPAN

LIFESAVER, SHELLY BEACH, AUSTRALIA

SUBSTITUTE TEACHER, SANDERUMSKOLEN, DENMARK