

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. 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 AEC. Alongside my academic work, I have two years of experience at Gehl, an architecture studio, where I gained vast experience in visual programming and environmental simulations. 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 in cooperation with Rambøll.

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 in cooperation with Bjarke Ingels Group (BIG).

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 in creating a sustainable project. For more information about Blue Dot: <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