

OSKAR GRAM NIELSEN

ARCHITECTURAL ENGINEER

[HTTPS://WWW.OSKARGRAMNIELSEN.INFO/](https://www.oskargramnielsen.info/)



DETAILS

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🏠 Copenhagen, Denmark

PROFILE

Architectural engineer specializing in software development, automation, and data analytics, with focus on optimizing workflows through innovative digital solutions. Currently leading large infrastructure projects at CN3, enhancing design processes through customized automation tools and enterprise solutions. Proven experience at BIG, Rambøll, and Gehl in developing innovative solutions and collaborating with multidisciplinary teams. Committed to driving efficiency, accuracy, and success by integrating digital technologies.

SOFTWARE

Power Platform ●●●●●●●

Python ●●●●●●●

C# ●●●●●●●

Excel ●●●●●●●

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

AUTOMATION ENGINEER CN3

2023-05 → NOW



As an engineer at CN3, I develop automation solutions for the construction industry, focusing on workflow optimization and data analysis. I create plug-ins and applications using C#, which streamline design and building processes, enhancing efficiency and accuracy. Collaborating with a skilled team, I contribute to our ambitious digital transformation projects.

SELF EMPLOYED ANDELSKORTET

2023-05 → NOW



Founded a company and developed a website displaying a map of Copenhagen to help users find shared 'Andelsboliger' apartments. Gathered data through web scraping, cleaned and visualized the data, and hosted the map at <https://andelskortet.dk/>

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>

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