

**Dipl.Ing. Gert Mathysen**  
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## Personal profile

Freelance Engineer / Data Scientist with a passion for machine learning.  
Passionate about entrepreneurship, loves to work/interact with people and likes to work in an innovative and game-changing environment.

## Experience

- Feb. '15 – present     **Freelance Data Scientist / Machine Learning Engineer** (self-employed)
- Oct. '11 – present     **Making feasibility studies for use renewables in new buildings**  
(self-employed)
- Sept. '11 – Dec. '14   **Project engineer HVAC, Cenergie**  
Tasks: design of HVAC systems, making of tender files, giving advice to architects and builders, ...
- Jan. '11 – June '11    **Project engineer HVAC, Gebotec**
- Feb. '09 – Sept. '12   **EPC certification** (self-employed, 155 audits)

## Education

- Sept. '09 – Sept. '10   **Master of Science, Electromechanical Engineering**  
Artesis Hogeschool, Antwerpen  
Internship: Continental Energy Systems (CHP manufacturer)  
Thesis: 'Study of heat pump-CHP pilot project'
- Sept. '08 – June '09    **Bachelor of Science, Electromechanical Engineering**  
Artesis Hogeschool, Antwerpen  
Thesis: 'The design of an off-grid PV system'
- Sept. '05 – June '08    **Bachelor of Science, Industrial Sales Engineer**  
Plantijn Hogeschool, Boom  
Internship: Egemin  
Thesis: 'Drawing up guidelines for selection of new automation projects'

### Additional:

- Feb. '17                    Apache Spark with Python, Udemy
- Oct. '16                   Machine Learning by Andrew Ng, Coursera
- Sep. '16 - Oct. '16      Data Science and Machine Learning with Python, Udemy
- Mar. '11                   Energy-efficient lighting with Lighting Management, Trilux

Nov. '09 - Feb. '09	Energie expert type A, Syntra Turnhout, Belgium
Feb. '08 - Mar. '08	Photovoltaic systems, Syntra Kortrijk, Belgium

## Computer skills

MS Office:	Very good
AutoCAD:	Very good
Autodesk Inventor:	Good
Dialux:	Good

### Languages:

Python:	Good
CSS:	Basic
HTML 5:	Basic
Javascript:	Basic

### Other:

Git:	Good
Pandas:	Good
Scikit-learn:	Good
Tensorflow:	Good
Apache Spark:	Basic
Matplotlib:	Good
Seaborn:	Good
Bokeh (server):	Good
Jupyter notebook:	Good
SQL:	Basic
Django:	Basic

## Language skills

<b>Dutch:</b>	Basic[	o]Native
<b>English:</b>	Basic[	o ]Native
<b>German:</b>	Basic[	o ]Native (improving, course and language tandem)
<b>French:</b>	Basic[o	]Native

## Activities and interests

- Technology and science
- Traveling, in particular South America
- Finance and investing