



NATHAN SENNESAEL



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14 may 1997



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EDUCATION

M.S. in Biomedical Engineering | UGent, EPFL, VUB

20 September 2018 - 10 September 2020

- Minor: Radiation Physics
- Thesis: Deep Learning for Computer Aided Diagnosis of Lung Nodules in Low Dose CT scans
- Magna Cum Laude - *with great praise*

B.S. in Engineering Physics | UGent

20 September 2015 - 6 Juli 2018

- Bachelor Project: Laser Beam Steering using Liquid Crystals and Simulation in MATLAB

Secondary Diploma | EDUGO Campus Glorieux

September 2013 - Juli 2015

- Final project: Electromagnetic Radiation
- Graduation Awards: Highest Total Grades in School, Mathematics Award - *great distinction*

EXPERIENCES

Intern/Assistant in Vascular Surgery Practice |

Dr. Vermaercke Vaatchirurgie BVBA

- Had the opportunity to learn more about Angiology and Vascular Pathology
- Gained practical experience with: Laser Treatment, Doppler Ultrasound, Local Anesthetics, ...
- Set up a pipeline for storage of Ultrasound video data

Deep Learning Research Project | Laboratory

of the Physics of Biological Systems, EPFL

- Deep Learning for Segmentation of C. Elegans Neurons from 3D Microscopy
- Gained experience within a research lab applying advanced Machine Learning in a practical setting

High School Teaching | EDUGO Campus Glorieux

- Taught several math classes under supervision of my former math teacher
- Improved on: public speaking, preparing long lectures, ability to transfer knowledge

Other: I also had various summer jobs:

- stocking ice cream truck warehouse
- serving as a waiter

These taught me valuable lessons about work ethic

LANGUAGES

- Dutch → Native language
- English → Advanced
- French → Intermediate
- German → Beginner

COMPUTER SKILLS

- Python
- MATLAB
- CAD: SolidWorks
- Java
- LaTeX
- HTLM & CSS
- Microsoft Office

SPECIFIC SKILLS

- Machine Learning
- Statistics & Probability
- Applied Physics
- Mathematical Modelling
- Data Visualization
- Computer Hardware
- Electrical Circuits & Electronics

PERSONALITY

- Optimistic, Flexible, High Tempered
- Driven, Workaholic
- Rational, Analytical