



Marc Berneman

Electrical, Modeling and Control Engineering

Education

- 2020–2021 **Advanced Master**, *Nuclear Engineering*.
Belgian Nuclear higher Education Network
- 2018–2020 **Master of Science**, *Electrical Engineering majoring in measuring, modelling and control*, GPA – 93%, Summa Cum Laude (With Highest Distinction).
Vrije Universiteit Brussel
- 2015–2018 **Bachelor of Science**, *Electrical Engineering*, GPA – 79%, Magna Cum Laude (With High Distinction).
Vrije Universiteit Brussel

Work

- July–
September
2020 **Machine Learning Engineer Student Job**, *ETRO lab at VUB*.
Machine learning and big data for disinformation monitoring. I gained experience in Linux, Docker, BERT machine learning models for natural language processing and much more.

Internship

- July–
September
2018 **Investigating the advantages and disadvantages of small 120 GHz radar**, *Fraunhofer Institute for High-Frequency Physics and Radar Technologies (Bonn, Germany)*.
I was given a lot of freedom during this internship. Thanks to the help of my supervisor, I was able to design good experiments that gave me very clear results. Most of all I learned that an experiment needs to focus on 1 thing you want to investigate and that it is important to gather all the possible data, even if some of the data seem to be unnecessary at first.

Master thesis

title **A frequency domain approach to data-driven control**
supervisors Pintelon Rik and Lataire John
grade 95% (19/20)

Honours

September 2020 **Best master thesis prize**, *Brussels Engineering Alumni (BrEA)*.

Publications

28 October 2020 **Modeling and Control of 5-DoF Boom Crane**, *37th International Symposium on Automation and Robotics in Construction (ISARC 2020)*, Ambrosino, M., Berneman, M., Carbone, G., Crépin, R., Dawans, A., & Garone, E..

Submitted (not published yet) **A Frequency Domain Approach to Model Reference Control**, *19th IFAC Symposium on System Identification*, Berneman, M., Pintelon, R., Lataire, J..

Teaching Experience

September 2019 – present **University level tutoring in Maths and Analog Electronics**.
Tutoring 2 university students at the Free University of Brussels.

September 2017 – July 2018 **Private high school tutor in Maths and Sciences**, *Het Bijlesbureau*.
I love teaching. I have helped multiple friends with their maths and science courses. Often times my classmates come to me for explanation, and it is always a pleasure to help them.

Languages

Dutch	Mother language	<i>Language in which my Bachelor degree was taught</i>
French	Mother language	
English	Excellent	<i>Language in which my Master degree was taught</i>
Hebrew	Conversationally fluent	
German	Basic	<i>30 hour A1 level course</i>