



# 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.

## 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..

## 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.

## Additional Skills

Word processors Microsoft Office,  $\text{\LaTeX}$   
Programming languages C++, Assembly, Java, VHDL, Python, MATLAB, Microcontroller programming

## Languages

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