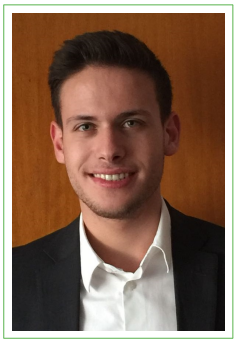

Marc Berneman

Electrical, Modeling and Control Engineering

Education

2020–2021 **Advanced Master**, *Nuclear Engineering*, GPA – 75%, Cum Laude (With Distinction).
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 and reporting on the advantages and disadvantages of small 120 GHz radar**, *Fraunhofer Institute for High-Frequency Physics and Radar Technologies (Bonn, Germany)*.
Reliability and feasibility of a mini radar. I made a GUI in Python that interfaces with the circuit controlling the RF components. Moreover, I reported on bugs I found in the computational parts of the circuit. Finally, I proposed a slight correction between the distance of an object to the radar as measured by the circuit and the actual distance to the object.

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Honours

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

Publications

Presented in July 2021, accepted for publication **A Frequency Domain Approach to Model Reference Control**, *19th IFAC Symposium on System Identification*, Berneman, M., Pintelon, R., Lataire, J..

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..

Languages

Dutch **Mother language**

French **Mother language**

English **Excellent**

Hebrew **Good**

German **Basic** *30 hour A1 level course*