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.

Honours

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

Publications

16 July 2021   **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*