# Marc Berneman

## PhD Student

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### ▬ Work

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| October 2022 – today | **PhD Student**, *Technion Israeli Institute of Technology*. Dynamics and training of disordered solids. |
| 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. |

### ▬ Publications

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| 17 September 2021 | **Context-Aware Deep Markov Random Fields for Fake News Detection**, *IEEE Access*, Do, T., Berneman, M., Patro, J., Bekoulis, G., & Deligiannis, N.. |
| 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.. |

### ▬ Honours

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

## Education

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| 2020–2021 | **Advanced Master**, *Nuclear Engineering*, GPA – 75%, Cum Laude (With Distinction). <br> 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). <br> Vrije Universiteit Brussel |
| 2015–2018 | **Bachelor of Science**, *Electrical Engineering*, GPA – 79%, Magna Cum Laude (With High Distinction). <br> Vrije Universiteit Brussel |

## Internship

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| 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)*. <br> 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. |

## Languages

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| Dutch | **Mother language** | |
| French | **Mother language** | |
| English | **Excellent** | |
| Hebrew | **Very good** | |
| German | **Basic** | *30 hour A1 level course* |