

# Aurelien Werenne

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## Education

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| <b>University of Liège</b><br><i>Master of Computer Science and Engineering, with focus on Intelligent Systems</i> | <b>Liège, Belgium</b><br>2016–2019 |
| <b>Universidade de São Paulo</b><br><i>Exchange Semester</i>   | <b>São Paulo, Brazil</b><br>2018   |
| <b>University of Liège</b><br><i>Bachelor of Science in Engineering</i>  | <b>Liège, Belgium</b><br>2012–2016 |

## Projects

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### Master Thesis : Energy-based Multi-Modal Attention (honors : *summa cum laude*)

In realistic situations, multi-modal neural networks could potentially receive input data with varying levels of perturbations among the modes, which may decrease the quality of the inference process. This thesis presents an innovative solution to this unsolved problem. It obtained promising results, up to a 20 percent performance gain on real-world perturbed data. The report and code can be found on my Github profile (see header).

### Personal Project : Unknown environment mapping with two robots

Two robots were constructed and implemented from scratch. The objective is to explore and map unknown environments as fast as possible. One of the main challenges was to induce a cooperative behaviour between the robots. A demonstration video is available on my portfolio website (see header).

## Experience

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| <b>ID Trust Medical</b><br><i>Production Engineer (intern)</i><br>Refine and automate processes in order to optimize the production flow.  | <b>Leuven, Belgium</b><br>2017     |
| <b>Erasmus Student Network</b><br><i>Event Coordinator (volunteer)</i><br>Organize cultural trips, sporting events, conversation tables and parties to facilitate integration of university exchange students ( $\pm 900$ per year).               | <b>Liège, Belgium</b><br>2016-2017 |
| <b>Infinia</b><br><i>Software Developer (freelancer)</i><br>Develop a risk profiling system in the area of life insurances, where the system determines the investment profile of a client based on its answers to a list of calibrated questions. | <b>Brussels, Belgium</b><br>2016   |

## Skills

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**Programming skills:** Python, C, C++, Java (work in progress), Matlab and SQL.

**General expertise:** Robotics, Algorithms, Deep Learning, Machine Learning and Artificial Intelligence.

## Languages

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**French:** Native proficiency

**Dutch:** Native proficiency

**English:** Full professional proficiency

**Portuguese:** Elementary proficiency