

Resume



EDUCATION

UCLouvain

Telecommunications Engineer

Researches: Differential Ray Tracing for Telecommunications.

2021.09 - Now

Doctor of Philosophy - PhD

UCLouvain

Electro-mechanical engineering

Majored in mechatronics. I undertook a variety of course topics: wireless communications, open source software, numerical simulations, digital design of ICs, mining pattern in data, etc., for a total of 112 % workload. *Graduated Magna Cum Laude*.

2019.09 - 2021.06

Master's degree

UCLouvain

Applied Sciences - Civil engineering

I took a major in electricity and a minor in mechanics. In 2017, I received a scholarship to sharpen my English at the Horner School of English, Dublin.

2016.09 - 2019.09

Bachelor's degree

EXPERIENCES

UCLouvain

Teaching Assistant

2021.09 - Now

Louvain-la-Neuve, Belgium

Currently working as a teaching assistant, aside my PhD. See [teaching duties](#) for more details.

LSM Conseil [Consultancy]

Punctual time volunteer

2022.02 - 2022.05

Belgium

I developed, with the help of my colleague Louis Devillez, a camera-based testbench for medical applications.

We used Raspberry Pi's for the web interface and control, Dynamixel's AX12 motors for camera positioning, and many 3D printed / laser cut pieces.

LesScouts ASBL [Non profit]

Scouts chief

2015.09 - 2021.09

Archennes, Belgium

From Sep 2015 until Sep 2019: "Louveteaux" chief (8 to 12 years old), and responsible chief from September 2018 to July 2019.

From Sep 2019 until Sep 2021 : "Eclaireurs" chief (12 to 16 years old) as responsible chief.

Superprof [Freelance]	2017.10 - 2021.08
<i>Private Teacher</i>	 Belgium
I gave private courses, averaging 1 to 2 hours per week, to students aged from 12 to 19 years old. The fields I taught were: mathematics, physics, chemistry and biology.	
LSM Conseil [Consultancy]	2021.04 - 2021.06
<i>Punctual time volunteer</i>	 Belgium
HDL Developer for FPGA based application - I was in charge of implementing an algorithm for a client of LSM Conseil.	
NXP Semiconductors	2021.02 - 2021.06
<i>Student Internship</i>	 Leuven, Belgium
I helped the Personal and Health R&D team to enhance BLE product by developing software solutions to mitigate Wi-Fi interference and provide collision-free connection scheduling.	
UCLouvain	2021.02 - 2021.06
<i>Student's Buddy</i>	 Louvain-la-Neuve, Belgium
As part of the Unlock Student Success (USS) program, my role was to guide and help first year students in civil engineering studies to succeed their first year.	
UCLouvain	2018.09 - 2021.06
<i>Junior Teachin Assistant</i>	 Louvain-la-Neuve, Belgium
In classrooms of 20-30 peoples, I gave a wide variety of exercise sessions. You may find the complete list of courses in the <u>teaching duties</u> section.	
UCLouvain	2020.08 - 2020.12
<i>Student Consultant</i>	 Louvain-la-Neuve, Belgium
Radar ray tracing software implementation: MATLAB to Python translation and optimisation.	
UCLouvain	2020.08 - 2020.08
<i>Student Consultant</i>	 Louvain-la-Neuve, Belgium
Radar covering for various land cover. My role was to use public data in order to study the impact of land cover in the radio waves and to build tools around this.	
La Sauterelle	2018.09 - 2020.05
<i>Gymnastic Instructor</i>	 Louvain-la-Neuve, Belgium
LSM Conseil [Consultancy]	2019.10 - 2020.04
<i>Punctual time volunteer</i>	 Belgium
Developped a website add-on for a client of LSM-Conseil. I worked with two colleagues on this project. We mostly programmed in JavaScript and HTML, using the Ionic framework.	
UCLouvain	2018.08 - 2018.09
<i>Student Consultant</i>	 Louvain-la-Neuve, Belgium

I was asked to develop tools, in Python, that would minimize the conflicts in between the student's exams. Also, I build a GUI to help the secretary visualize the schedule of all the exams. This was done building an custom Excel spreadsheet including colors and several sheets, via a simple user interface.

CESAM Nature

2016.08 - 2018.08

Sport Instructor

 Belgium

During summer vacation or for birthday parties, several times, I took the responsibility of a small group of kids, aged from 6 to 13 years old, and taught them (new) sports such as mountain biking, roller, etc.

OPEN SOURCE PROJECTS

Below, you can find some of the Open Source projects I have been working on for the past years.

ADE Scheduler | |

With 2 friends of mine, we created a tool that uses the ade API to create a user-friendly and more convenient experience to every student (and professor) in need of planning activities.

- 9000+ accounts have been created
- 1000+ average daily users

INTERESTS

Ultimate Frisbee / Gymnastics / Open Source Programming

LANGUAGES

French [Native] / English [B2+ / C1] / Dutch [B1]

TEACHING DUTIES

Below are listed all the teaching activities I have been involved in at University.

Junior Teaching Assistant is a student job that allows University students to give practical sessions for classes they have already passed.

Teaching Assistant is an actual job position at University.

LELEC1101: Project I in electricity

2023.S1

Teaching Assistant

Louvain-la-Neuve, Belgium

In charge of the practical sessions.

LELEC2102/03: Project in Electrical Engineering

2022.S2 - 2023.S1

Teaching Assistant

Louvain-la-Neuve, Belgium

In charge of the wireless communications part.

LELEC2796: Wireless Communications	2022.S2
<i>Teaching Assistant</i>	Louvain-la-Neuve, Belgium
In charge of the practical sessions and creating the new project for 2023-2024.	
LEPL1109: Statistics & Data Science	2022.S2
<i>Teaching Assistant</i>	Louvain-la-Neuve, Belgium
In charge of the practical sessions and creating a hackathon for the students.	
LELEC1101: Project I in electricity	2022.S1
<i>Teaching Assistant</i>	Louvain-la-Neuve, Belgium
In charge of the practical sessions and creating the project.	
LELEC1930: Introduction to telecommunications	2022.S1
<i>Teaching Assistant</i>	Louvain-la-Neuve, Belgium
In charge of creating and giving the practical sessions.	
LEPL1203: Physics III	2021.S2
<i>Teaching Assistant</i>	Louvain-la-Neuve, Belgium
In charge of the practical sessions, including laboratory sessions.	
LEPL1109: Statistics & Data Science	2021.S2
<i>Teaching Assistant</i>	Louvain-la-Neuve, Belgium
In charge of the practical sessions and creating a hackathon for the students.	
LINGI2315: Design of Embedded and real-time systems	2021.S1
<i>Junior Teaching Assistant</i>	Louvain-la-Neuve, Belgium
In charge of the student examination and organization of support sessions.	
LEPL1110: Introduction to finite elements	2021.S1
<i>Junior Teaching Assistant</i>	Louvain-la-Neuve, Belgium
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LEPL1104: Introduction to numerical methods	2021.S1
<i>Junior Teaching Assistant</i>	Louvain-la-Neuve, Belgium
...	
LEPL1103: Complex analysis and PDE's	2020.S2
<i>Junior Teaching Assistant</i>	Louvain-la-Neuve, Belgium
...	
LINMA1170: Numerical analysis	2020.S2
<i>Junior Teaching Assistant</i>	Louvain-la-Neuve, Belgium
...	

LEPL1109: Statistics & Data Science	2020.S2
<i>Junior Teaching Assistant</i>	Louvain-la-Neuve, Belgium
...	
LELEC1101: Project I in electricity	2020.S1
<i>Junior Teaching Assistant</i>	Louvain-la-Neuve, Belgium
...	
LEPL1502: Project II	2020.S1
<i>Junior Teaching Assistant</i>	Louvain-la-Neuve, Belgium
...	
LEPL1105: Analysis II	2020.S1
<i>Junior Teaching Assistant</i>	Louvain-la-Neuve, Belgium
...	
LEPL1104: Introduction to numerical methods	2020.S1
<i>Junior Teaching Assistant</i>	Louvain-la-Neuve, Belgium
...	
LEPL1108: Discrete mathematics and probabilities	2019.S2
<i>Junior Teaching Assistant</i>	Louvain-la-Neuve, Belgium
...	
LEPL113: Complex analysis and PDE's	2019.S2
<i>Junior Teaching Assistant</i>	Louvain-la-Neuve, Belgium
...	
LMECA1120: Introduction to finite elements	2019.S1
<i>Junior Teaching Assistant</i>	Louvain-la-Neuve, Belgium
...	
LEPL1104: Introduction to numerical methods	2019.S1
<i>Junior Teaching Assistant</i>	Louvain-la-Neuve, Belgium
...	
LFSAB1104: Introduction to numerical methods	2018.S2
<i>Junior Teaching Assistant</i>	Louvain-la-Neuve, Belgium
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