# LEO MOULIN

Name

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**Github** 

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## **ENGINEER**

- 2 years as R&D Engineer
- 1 year Technical Engineer
- Audio Signal Processing
- Python Algorithm Development
- Master in Civil Engineering (Electronics & **Telecommunications**)
- Bilingual in French & English

#### **PROFESSIONAL SKILLS**

- Audio Signal Processing
- Data Science stack (Python, SQL, R)
- Machine Learning, Feature Statistical modelling
- Problem-solving skills
- Critical-thinking and Result-oriented

#### **EDUCATION**

### 2023-2024

### Specialized Master in Data Science, Big Data



Université Libre de Bruxelles

- Data Mining
- Deep Learning
- Time Series Analysis
- Big Data Management

https://www.ulb.be/en/programme/ms-bgda

#### 2016-2019

## **Master in Electrical Engineering - Option Information and Communications Technology Systems**



Université Libre de Bruxelles

- **Telecommunication** (Network Protocols, Communication channels, Modulation, Coding, Mobile and Wireless Network)
- **Digital Signal Processing** (Signal Theory)
- **Electronics** (Analog Electronics, Microprocessor architecture, Digital
- Information and Communication Technology Systems (Machine Learning, Image Processing, Computer Vision),
- Final year thesis "3D Reconstruction in Multi-Cameras systems" (Computer vision, Optimizations problems, C++, PCL) published in IEEE

https://www.ulb.be/en/programme/ma-irel

#### 2012-2016

### **Bachelor in Civil Engineering**

• Electronics & Telecommunications



### mar 2021mar 2023

### **R&D Engineer in Audio Processing**



SoundTalks (Leuven)

- Audio Signal Processing
  - Algorithm Development in Python
  - Research and Development in the field of audio analysis
  - Exploration, Development and validation of new algorithms in Python
  - Audio Feature Extraction

### sep 2019aug 2020

### **Technical Engineer**



Huawei Technologies Ltd (Brussels)

- Delivery of Services & Products for telecommunications
- Installation and Commissioning (Software, Hardware, IP, Planning)
- Support and Maintenance
- Fixed Network technologies (Access Optical, FTTH, SIP,.)

### oct 2018dec 2018

#### Orchard worker

**Vineco** (Hastings, New Zealand)

• Kiwi fruit thinning in New Zealand

#### **ACADEMIC PROJECTS**

2024	Anomaly Detection and Fault Prediction in railway service Data Exploration, Feature Engineering, Model Selection	MS-BGDA
2018	<b>Voice isolation with a CNN in Python</b> Deep learning, audio signal processing, Tensorflow	MA2
2018	<b>Simulation of a satellite communication chain</b> Matlab, modulation, coding, filtering	MA1
2018	Design of a water level control system in Matlab	MA1

#### **PROGRAMMING & SOFTWARES**

### **LANGUAGES**

**Python** (Pandas, Scikit-Learn, Pytorch, Tensorflow, Librosa) **Version Control** (Git) **Linux** (Scripting)

System identification, PID controller, Simulink

**SQL** (MongoDB, PostgresDB) **C++** (Point Cloud Library)

Matlab, R, JupyterLab, Arduino

French - Native Language

**English** - Professional Working Proficiency

**Dutch** - Basic

### **PUBLICATION**

#### INTERESTS AND ACTIVITIES

L. Moulin, S. Rogge, and A. Munteanu, Joint registration of multiple point sets with refinement, in 2019, IEEE International Symposium on Multimedia (ISM), San Diego, CA, USA

Mountain hiking IA Research, Applications of Machine Learning Board game passionate

https://www.computer.org/csdl/proceedingsarticle/ism/2019/560600a072/1gFJdf4ARIm