



## PROFILE

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## LANGUAGES

French: Native  
English: Fluent  
German: Intermediate  
Spanish: Beginner

## COMPUTER SKILLS

3D Design: Catia V5, Solidworks  
Engineering Simulation: Ansys, Comsol  
Numerical Computation: MATLAB, Simulink  
Python: Numpy, Pandas, TensorFlow, Scikit-learn, PySpark  
Languages: C, SQL  
Tools: Git, Docker

## OTHER EXPERIENCES & HOBBIES

Sports: Running (Marathon), Cycling, Judo & Fitness  
Music: Piano lessons during 11 years.  
Scouting: 5 years of scouting, evolving from trainee to team leader  
Other interests: Passionate about astrophotography: Night Sky shots (with sophisticated equipment); social media posts.  
Travels: US, Peru, Malaysia, Thailand, Cambodia, Morocco, Canada, Tunisia, Italy...

# GUILLAUME LECRONIER

Birthdate: 20.04.2000  
Nationality: French

## PRACTICAL EXPERIENCE

### Master Thesis on Smart Built Environment Robotics

National University of Singapore | Sep 2023 - Feb 2024 | Singapore  
Working in the building robotics laboratory to design a bluetooth low energy indoor positioning system for smart building environment monitoring.

### R&D Engineer Intern for IoT applications

Sensirion Connected Solutions | Sep 2022 - Feb 2023 | Zürich  
Working on a end-to-end, sensor-based continuous methane leak monitoring IoT device, in the physical product department. Mainly involved in Data Science, Programming & Product Testing tasks.

### DataOps Engineer Working Student

Sensirion Connected Solutions | Mar 2023 - Aug 2023 | Zürich  
Making data driven decisions for methane leak estimation and localization on natural gas fields.

### Sleep & Lucid dreaming device design

Sensory Motor Systems Lab, ETHZ | Mar 2023 - Jul 2023 | Zürich  
Designing an EEG signal based sleep stage classifier in the scope of improving sleep quality and increase probability of lucid dreaming.

### Soft Robot gripper design

Soft Robotics Lab, ETHZ | Mar 2022 - Jul 2022 | Zürich  
Designing and building of an air-actuated gripper made of deformable elastomeric materials.

## EDUCATION

### ETH Zürich

Master of Science | Sep 2021 - Present | Zürich  
MSc in Mechanical Engineering with focus on Robotics and Machine Learning. Enrolled in 2021, graduation expected in 2024.

### KTH-Royal Institute of Technology

Swiss Mobility Program | Sep 2020 - Jul 2021 | Stockholm  
3rd year of Bachelor as an EPFL exchange student at the KTH in the the school of Vehicle Engineering.

### EPFL

Bachelor | Sep 2018 - Jul 2021 | Lausanne  
Bachelor in Mechanical Engineering

### Lycée Saint Louis de Gonzague

French Baccalaureate | 2018 | Paris  
Scienfic Baccalauréat with Highest Honours obtained in 2018 after having studied in this high school since 2011.

## EXTRA-CURRICULAR ACTIVITIES

### Board Member

Coaching EPFL | 2019  
Encouraging 1st year students integration through work sessions and social events

### Leadership & Management

Tufts University | 2019 | Boston  
Pre-College Summer courses in Entrepreneurship, Leadership and Team Building

### Tutor

Academic Support Association | 2015-2016 | Paris  
Tutoring high school students aged 13 to 17 as a volunteer in a tutoring association