# Titouan **Renard**,

Master student in Robotics with a minor in Data Science

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I am student at EPFL currently pursuing a Master of Sciences in Robotics with a minor in Data Science. I am interested in control theory, machine learning and their applications to robotic systems. I also have some experience in student associations and am proficient in French and English.

## Education

Ongoing **Master in Robotics with a Minor in Data Science**, Lausanne, Switzerland — 2020-Present
EPFL, STI and IC faculties

**Bachelor in Microengineering**, Lausanne, Switzerland — 2020
EPFL, STI faculty

**Bilingual Maturité**, Neuchâtel, Switzerland — 2016
French-English bilingual high-school, Lycée Denis de Rougemont, Physics and Applied Math

## Experience

**Copresident**, Unipoly (student's association for sustainabily at EPFL). — 2021-2022
Responsible for an association of approximately 300 membres with a 20'000 CHF annual budget.

**Student-Assistant at EPFL**, for the courses "Physique Générale 1" (Newtonian Mechanics), "Microinformatique" (basics of embedded systems programming for Microengineering students), Basics of Robotics and Material Sciences Practicals — 2018-Present

**Responsable Politique**, member of the direction comity of Unipoly, responsible for interactions with stakeholders and EPFL's direction on matters of sustainabily on campus. — 2020-2021
Public relations experience, some experience with media and press releases.

**Responsible of Events for the 2020 sustainabily week on EPFL campus**, Unipoly, — 2020
Management and coordination of about 30 events on EPFL and UNIL's campuses.

**Summer Internship**, Birorobotics Lab EPFL, at the Biorobotics Laboratory at EPFL, — 2018
implementation of a simple vision-based localization system using C++ and OpenCV.

**European Youth Parliament**, Switzerland — 2015-2016
English language public speaking experience.

## Skills

**Programming**, in C, C++, Javascript, Matlab, Python and Scala. Experience with OpenCV, Scipy, CasAdi, Tensorflow and Pytorch, comfortable with Unix systems and git.

**Math and Applied Math**, Probabilities, Linear Algebra, Calculus, Dynamic System Theory and Control Theory, Signal Processing, Algorithmic Design and Analysis. Strong abstraction capacity, ability to mathematically forumlate a concrete problem.

**Languages**, French (native proficiency), English (full proficiency), German (high-school level, B2)

**Soft Skills**, public speaking, writing and team management learned in the context student associations

## Relevant Courses

| Course | Grade |
|---|---|
| Model Predictive Control (ME-425) | 5.75/6 |
| Algorithms (CS-250) | 5.5/6 |
| Advanced Algorithms (CS-450) | 6/6 |
| Artifical Neural Networks (CS-456) | 5.75/6 |
| Aerial Robotics (MICRO-502) | 5/6 |
| Computer Vision (CS-442) | 5.5/6 |