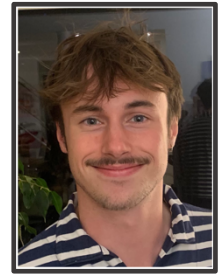


Colin Dietrich

Master's student in physics engineering

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EDUCATION

2021 - present **École Polytechnique de Bruxelles – Master of Science in Physical Engineering**

- Electives in photonics, nuclear physics and quantum mechanics.
- Courses such as: Laser Physics, Quantum Mechanics, Nuclear reactor physics, Numerical methods, et al.

2018 – 2021 **École Polytechnique de Bruxelles – Bachelor in Engineering Sciences**

- Option : Physics.
- Grade : Magna Cum Laude.
- Electives in photonics and quantum mechanics.
- Courses such as: Quantum mechanics, Object-oriented programming, Introduction to computer science, Numerical analysis, Fourier optics, Applied electronics, Electromagnetics et al.

2012 – 2018 **Collège Saint-Pierre – Baccalaureate Diploma**

- Option: Latin-Math, Dutch speaking immersion.
- Grade: Very Good.

EXPERIENCE

2021 - present **CODEPO, Université Libre de Bruxelles – CAMESKIN**

Development cooperation project

Design of an energy monitoring system aimed at improving the use of solar systems in rural areas by Democratic Republic of Congo.

Programming on a microcontroller (Arduino, Thingstream click), development of a Kalman filter, numerical simulation with Matlab, and implementation of a computer application to collect information remotely (MQTT communication protocol). The device was installed in Kinshasa in the CAMESKIN warehouse in order to monitor the solar panels and the batteries supplying the cold chain necessary for the conservation of medicines.

2018 - present **Self-employment**

Professeur particulier

Courses in mathematics and science for high school and university students at a frequency between 4 and 12 hours a week.

2018 - present **Jeugdhuis 't Uilekot**

Management of a youth center

Organization of events in a youth center, management of finances and joint projects with the municipality of Uccle or other outside organizations.

2017 - 2018 **Self-employment**

Video Game Developer

Development of mobile games in Swift, two of which have been released on the Apple Store.

2016 - 2018 **Belgian Association for Tennis Development (BATD)**

Private tennis teacher

Individual and group courses for children, teenagers, and adults at a frequency between 4 and 10 hours a week at the club TC Sollenbeemd in Halle, Belgium. Tennis lessons were given in Dutch.

COMPÉTENCES, ACTIVITÉS ET INTÉRÊTS

Languages : Native in French; professional skills in Dutch (obtaining the CNaVT, allowing higher education in Dutch) and English.

Technical Skills : C, C++, Java, Python, Swift, HTML, CSS, Javascript, LaTeX, MATLAB, GNU Octave.

Activities: Guitar (education at Academy of Uccle) and piano, Scout leader (Rosaire 2018-2021), Tennis (Belgian ranking : C15.2), Regular volunteering (OXFAM, BXLREFUGEES).

Interests : Sport, music, sciences, Computer science, traveling.