



# MONTIÈGE Killian

*Journée ED SPI*

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## Education

- 2020-2023 **Electronic Master's Degree in ESYBIO speciality (Electronic SYstems for BIOmedical engineering)**, *Bordeaux INP Graduate School of Engineering*, Bordeaux, France.
- 2022-2023 **Graduate Program Numerics**, Bordeaux, France.
- 2021 **Bachelor's Degree**, *Bordeaux INP Graduate School of Engineering*, Bordeaux, France.
- 2017-2020 **Intensive math, physics and engineering sciences course**, *Lycée Lesage*, Vannes, France.

## Professional Experiences

- 2023-Now **PhD on Multi-Organ-on-Chip Instrumentation for Diabetology**, *IMS-Lab*, Bordeaux, France.
- 2023-Now **Supplementary Teaching Mission**, *Bordeaux INP Graduate School of Engineering*, Bordeaux, France.

## Academic Projects and Internship Experiences

- 2023 **Internship: Implementation of mathematical cerebellum model on FPGA**, *NC-lab*.  
VHDL, SPI, USB, Quadcopter adaptative control, Japan neuroscience laboratory
- 2023 **Graduate Program: Electrostimulation Therapies for Baroreflex Disorders**, *Numerics*.  
State of the art, Poster presentation at a colloquium, IMS-Lab
- 2022 **Semester project: Real-time interface for neuroelectrophysiology**, *Bordeaux INP*.  
Acquisition board full design, 4-layer stack-up, CEM, Biology/Physic interface, Order process
- 2022 **Internship: Full state feedback for motor control**, *NAMEC*.  
Embedded Electronics, STM32CubeMX, Brushless motor speed controller
- 2022 **Semester project: Wireless button for handicapped persons**, *Bordeaux INP*.  
HID over GATT, C++, MicroPython, 3D printing

## Extra Experiences

- 2022 **Planète Sciences prize of the science mediation**, *French Cup of Robotics*.
- 2021-2022 **Vice-president in charge of partnership of a robotic association**, *EIRBOT*.
- 2021-2022 **Head of logistic for a gala reception**, *Bordeaux INP – ENSEIRB-MATMECA*.

## Technical Skills

PCB design KiCAD, Proteus  
Circuit design Spice, Cadence  
Programming C, C++, Python, MatLab,  
and VHDL Vivado, STM32CubeIDE  
CAD Onshape, Fusion  
Documentation Latex, Markdown, Office

## Languages

French Native  
English B2 - 6.5/9 IELTS  
Japanese Beginner - Experience abroad

## Interests

- Sports Practice basketball for 8 years and daily follow the NBA. Used to play football.
- Maker Member of a robotic association and participated in the French Cup of Robotics in 2022.
- Japan Love the culture, history and food. I had the opportunity to live a 6-month experience there.