

# Henry Bory Prevez

Full Professor · Doctor of Sciences in Automatic Control

## International executive CV



Universidad de Oriente · Santiago de Cuba

English · Functional translation for international visibility; review before official institutional use.

## Profile

Full Professor at Universidad de Oriente with work in automatic control, power electronics, advanced control, renewable energy, micro-hydropower, OTEC, wave energy, scientific software and applied mathematical modelling.

## Areas of expertise

- Automatic control, advanced control and power electronics.
- Micro-hydropower, Pelton turbine contexts and isolated microgrids.
- OTEC systems, ocean energy and wave energy.
- MATLAB/Simulink, Python, Octave, Arduino and virtual laboratories.
- Computational biophysics, mathematical oncology and complex systems modelling.

## Publications and outputs

- IFAC-PapersOnLine and energy conversion structures for micro-hydropower contexts.
- Royal Society Open Science 2022: computational modelling in tumour growth and charge density.
- Educational software, virtual laboratories and MATLAB/Simulink-based resources.

## Software and projects

- Niord v.1.0 / Niord0150-01-2022
- AnaRed V1.0
- TabPer V1.0
- Cal\_Arr\_Fre V1.0
- Calc\_Covid19 V.1.0

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