

Orlando Mota Pires

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ACADEMIC

- Degree in Computer Engineering at SENAI/CIMATEC **2021 - 2025**
- High school at Colégio Cândido Portinari, Salvador, BA **2014 - 2020**

EXPERIENCE

Academic monitor at Senai CIMATEC

Period: February 2022 - December 2022

Description: Monitor of the Algorithms and computational thinking disciplines at Senai Cimatec, helping all students who were starting the Computer Engineering course and providing them with all the help they needed so they could develop.

Senai CIMATEC Programming Club (*co-founder*)

Period: September 2021 - March 2024

Description: In the Programming Club, my responsibilities included teaching algorithms and computer logic to students from computer engineering and other courses. I organized competitive programming marathons like OBI and SBC, as well as managed the organization and maintenance of the Student Initiative.

Scientific initiation at Senai CIMATEC in the HPC Center.

Period: July 2022 - December 2022

Objective: Demonstrate the applicability of the DPC++ language in the development of scientific computational codes in academic and industrial contexts. **(The final paper can be found on the publication 1.)**

Scientific initiation at Senai CIMATEC in the HPC Center.

Period: January 2023 - December 2023

Objective: Creation of introductory python notebooks for learning basic neural networks and artificial intelligence concepts. **[Project Github Repository Link](#)**

Scientific initiation at Senai CIMATEC

Period: March 2024 - Currently

Objective: Modeling time series extracted from brain activity with Python and Identifying with autocorrelation techniques, pre-ictal or pre-seizure states in epileptic patients.

Intern Student at Senai CIMATEC

Period: March 2024 - Currently

Description: Intern Student at LAQCC (Latino America Quantum Computing Center) at Senai CIMATEC

KNOWLEDGES

Programming Skills

- C++, Python, Java
- Git/Github, Docker, Linux
- DPCPP, CUDA, SYCL, openMPI, HPC and parallel programming

Languages

- Portuguese - **C1**
- English - **B2**
- German - **A1**

PUBLICATIONS

Tuning a CPU-Based Stencil computation in a DPC++ Multi-Device Environment

CONCEIÇÃO, T.; RODRIGUES, A.H, PIRES, O., SOARES, L. Tuning a CPU-Computation in a DPC++ Multi-Device Environment. Journal of Bioengineering, Technologies and Health, v. 10, p. 1-13, 2018.

OneAPI: an Approach for Developer-Centered Heterogeneous Computing

CONCEIÇÃO, T.; RODRIGUES, A.H, PIRES, O., SOARES, L. OneAPI: an Developer-Centered Approach for Heterogeneous Computing. WSCAD22, v.10, p. 1-13, 2018.

Statistical Study of Eco-Efficiency in Compact and Average Cars (Chevrolet, Ford, VW, Fiat, Renault) in Brazil Based on the Metro Table in 2019

WENCESLAU, A; WIDMER, A; DUNKEL, G; SAMUEL, J; PIRES, O; NASCIMENTO, Aloisio. Statistical Study of Eco-Efficiency in Compact and Average Cars (Chevrolet, Ford, VW, Fiat, Renault) in Brazil Based on the Metro Table in 2019. Journal of Bioengineering, Technologies and Health, p. 1-7, 2019.