Orlando Mota Pires

Date of birth: December 24, 2002
Address: Simões Filho, Bahia, Brazil
Phone: +55 71 9 9110 5657
Email: orlandomota2002@gmail.com
Website: https://orlandomotapires.github.io/

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.

Senai CIMATEC Programming Club *(co-founder)*
Period: *September 2021 - March 2024*

Description: Teaching algorithms and computer logic to students from computer engineering and other courses and organizing 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

OTHERS

Intel Student ambassador

Period: *March 2023 - Currently*

Description: Acting as a student ambassador for Intel, I leverage Intel technologies within the university environment to enhance students' understanding and utilization of these advanced tools and technologies.

KNOWLEDGES

Programming Skills

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

CONCEIÇÃO, T.; RODRIGUES,A.H, PIRES, O., SOARES, L.OneAPI: an Developer-CenteredApproach for HeterogeneousComputing.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.