Curriculum

Personal Information

Name	Orlando Mota Pires
Date of birth	December 24, 2002
Address	Simões Filho, Bahia, Brazil
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Email	orlandomota2002@gmail.com
Github	https://github.com/orlandomotapires
Website	https://orlandomotapires.github.io/

Academic

February 2021 - Dec 2025	**Computer Engineering at Senai Cimatec**

Experience

Feb 2022 – Dec 2022	**Academic monitor at Senai Cimatec**
	Monitor of the Algorithms and Computational Thinking disciplines.
July 2022 – Dec 2022	**Scientific initiation at Senai Cimatec HPC Center**
	Demonstrated the applicability of DPC++ in developing scientific computational codes for academic and industrial applications.
Jan 2023 – Dec 2023	**Scientific initiation at Senai Cimatec HPC Center**
	Creation of introductory python notebooks for learning basic neural networks and artificial intelligence concepts.
March 2024 – Currently	**Scientific initiation at Senai Cimatec**
	Modeling time series extracted from brain activity with Python and Identifying with autocorrelation techniques, pre-ictal or pre-seizure states in epileptic patients.
March 2024 – Currently	**Intern Student at QUIIN Cimatec**
	Conducting research in Machine Learning and Quantum Computing, focusing on emotion classification models and initiating studies on Noisy Intermediate-Scale Quantum (NISQ) technologies and Quantum Neural Networks (QNNs).

Other activities

Sept 2021 – Currently **Senai Cimatec Programming Club**

As the co-founder of the Programming Club, I teach computer logic to students from Computer Engineering and other courses. I also organize competitive programming marathons, such as OBI and SBC, and oversee the organization and maintenance of the club.

March 2023 – Currently **Intel Student ambassador**

As an Intel Student Ambassador, I leverage Intel technologies within the university to enhance students understanding and utilization of advanced tools.

Skills

C++, Python, Qiskit	Machine learning and Quantum Computing
Git, Github, Docker, Linux	Devops Software
DPCPP, CUDA, HPC	HPC languages and tools
MS - Office	Common Microsoft Office applications

Languages

Portuguese	C2
English	B2
German	A1

Hobbies and interests

I take great pleasure in a variety of activities, including playing chess, engaging in video games, reading a diverse range of books, watching my soccer team play, and maintaining a regular exercise routine.

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-CenteredApproach for HeterogeneousComputing.WSCAD22,v.10, p. 1-13, 2018.

Facial Biosignals Time–Series Dataset (FBioT): A Visual–Temporal Facial Expression Recognition (VT-FER) Approach
João Marcelo Silva Souza, Caroline da Silva Morais Alves, Jés de Jesus Fiais Cerqueira, Wagner Luiz Alves de Oliveira, Orlando Mota Pires, Naiara Silva Bonfim dos Santos, Andre Brasil Vieira Wyzykowski, Oberdan Rocha Pinheiro, Daniel Gomes de Almeida Filho, Marcelo Oliveira da Silva and Josiane Dantas Viana Barbosa
Electronics 2024, 13(24), 4867; https://doi.org/10.3390/electronics13244867