

Curriculum

Personal Information

Name	Orlando Mota Pires
Date of birth	December 24, 2002
Address	Simões Filho, Bahia, Brazil
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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.
