Curriculum vitae

PERSONAL INFORMATION DAL'MAZ SILVA, Walter

- 9 69 cours Richard Vitton, Lyon 69003, France
- 🖬 (+33) 6 59 05 25 15 (please, prioritize e-mail)
- 🔀 walter.dalmazsilva.manager@gmail.com
- www.linkedin.com/in/walter-dal-maz-silva/

Date of birth 25th May 1989 | Nationality Brazilian

SKILLS

Spoken Languages	Brazilian Portuguese, English (C2), French (C1), Spanish (B2), German (A2)
Project Management	Planning, forecasting, quality, following KPI's, reporting
Scientific Programming	Advanced Python, Julia, Fortran, C and C++, Octave
Numerical Simulation	Ansys Fluent, OpenFOAM, Elmer Multiphysics, FEniCSx
Materials Science	Mechanical, thermal, and microstructural analyses, thermodynamics
Data Science	Massive data analysis, machine learning, and scientific computer vision
CAREER	
02/2022 – Present	Research Engineer at Imerys, Vaulx-Milieu – France
•	CFD simulation of rotary kilns and fusion furnaces (heat transfer, combustion, flow patterns,)
٠	Modeling of materials kinetics (JMKA approach, global kinetics, calcination, dehydration,)
٠	Development of an in-house state of the art rotary kiln model with coupled materials kinetics
05/2017 – 01/2022 • •	Research Engineer at ArcelorMittal, Maizières-les-Metz – France Physics and data-based low-order modeling of gas-solid processes in galvanizing furnaces Leaded digital transformation, Data Science, and machine learning in a team of 60+ people Organized and handled industrial trials for crises solution and deployment of new technologies
11/2013 – 11/2016	Research Engineer at IRT M2P, Metz – France
٠	Studied a surface hardening route of gear steels for aerospace and automobile applications
٠	Materials (SEM/TEM, mechanical, chemical) and atmosphere (GC) characterizations
•	Modeling of transport phenomena at both atmosphere kinetics and diffusion in solids
01/2012 – 10/2013	Product Engineer at Aker Solutions, Curitiba – Brazil
•	Materials selection and specification, medium compatibility and failure analyses
•	Support to welding documentation and specification, analysis of process deviations
٠	Metallic materials supplier audit for oil & gas standards compliance and customer requirements
ACADEMIC	
2013 – 2017	Materials Science and Engineering, PhD
Nancy, France	Université de Lorraine (UL) (supervisor: Belmonte, Thierry)

2007 – 2011 Materials Engineering, Degree

Florianópolis, Brazil Universidade Federal de Santa Catarina (UFSC) (supervisor: Maliska, Ana Maria)