LUIS MATIAS MECHANICAL ENGINEER

CURRICULUM VITAE

CONTACTS

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INTERESTS

Product Development 3D Printing

Mechanical Design Web Development

CAE Travelling

CAD/CAM Photography

LANGUAGES

Portuguese (Native)

English

20/06/1994 (27)

Ocvilhã, Portugal

WORK.

RESEARCH FELLOW

2021 (December) - Current

[INEGI] Institute of Science and Innovation in Mechanical and Industrial Engineering

Porto, Portugal

Financed Project: "Coronary Artery Disease Numerical Simulation and Functional Assessment by Advanced Computed Tomography"

Python - Medical Images - Image Segmentation - 3D Reconstruction

EDUCATION.

MASTER DEGREE MECHANICAL ENGINEERING 2022

[FEUP] Faculty of Engineering of Porto University

Porto, Portugal

Dissertation (Classification - 18): "Semi-Automatic Method of Stent Development in Coronary Arteries with Stenosis - Hemodynamic Simulations"

SolidWorks - Ansys Fluent - Medical Images - 3D Reconstruction - Fluids Dynamics

Curricular Project: Industrial Pavilion Dimensioning

Multiframe - Solids Mechanics - Eurocode 3 - Metalic Structures

Curricular Project: Composite Specimens - Fabrication, Mechanical Tests and Simulation

SolidWorks - Abaqus - Glass Fiber - Kevlar - Alluminum - Numerical Modelling - Tension Tests - Fabrication

BASCHELOR DEGREE
MECHANICAL ENGINEERING

[FCT-UNL] NOVA School of Science and Engineering

Almada, Portugal

SOFTWARE/SKILLS.





















Python 3

Abaqus

Matlab

Excel

Word

EXPERIENCES.

INTERNSHIP PROFESSOR ASSISTANT

2017

[RMUTR] Rajamangala University of Technology Rattanakosin

Phutthamonthon, Thailand

Teaching solids mechanics and helping students in their projects.

Introducing composite materials to students.

VOLUNTEERING ELEPHANTS CARETAKER

2017

2022

Elephant Nature Park

One week taking care of abused elephants and abandoned dogs.

Ohiang Mai, Thailand

PUBLICATIONS.

2022 "Dealing with CT Cardiac Imaging Using Python: An Approach for Future Hemodynamic Simulations"

In Proceedings of the 9th International Conference Mechanics and Materials Design, M2D2021, 26-30th June 2022, Funchal, Portugal.

ISBN and DOI are still undefined. In Press. Paper to be presented orally.

Python 3 - Medical Images - Image Segmentation - 3D Reconstruction

"Semi-Automatic Method of Stent Development for Hemodynamic Simulations in Patient Coronary Arteries with Disease"

Theoretical Analyses, Computations and Experiments of Multiscale Materials - Advanced Structured Materials, Springer DOI: 10.1007/978-3-031-04548-6_16

SolidWorks - Ansys Fluent - Medical Images - 3D Reconstruction - Fluids Dynamics

ONLINE COURSES.

CAD/CAM FOR **MANUFACTURING** Autodesk CAD/CAM for Manufacturing Specialization



Coursera - Autodesk

Currently Enrolled

Fusion 360 - CAD/CAM - CNC - Machining