RENÉ THIERRY DJOUMESSI

PhD student in Computational Mechanics and Computer Method in Engi...

PERSONAL DETAILS

Lucca Tuscany
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PROFILE

I am a scientist with expertise in mechanical and computational biomechanics, and I have several years of experience in this field. My research has primarily focused on mathematical and numerical modeling of biological organs, including the heart and the gastrointestinal tract. Currently, I am pursuing a second doctoral degree at IMT Lucca.

During my previous thesis, I developed a thermo-electro-mechanical model of the heart. This model provided insights into the effects of temperature on electromechanical activity and offered a direction for eliminating spiral waves through temperature gradients.

I am well-versed in algorithms and programming and have a strong background in mechanical construction. My current interests encompass programming, 3D printing, and numerical simulations.

EDUCATION

PhD, Computional Mechanics and Biomechanics Nov 2022 - Nov 2025
Scuola IMT Alti Studi Lucca

PhD, Biophysics Nov 2019 - Dec 2023
University of Dschang

Training School Oct 2023 - Oct 2023
Johann Radon institute (RICAM)

Docteur ingénieur, Bioengineering Jan 2020 - Dec 2021
Technical University of Cluj Napoca

Master of Science and Technology , Biophysics, Heart Modeling Jan 2016 - Dec 2018
University of Dschang

Master of Engineering - MEng, construction mécanique Sep 2014 - Jan 2016
University of Bamenda

Bachelor of Engineering - BE, Mechanical Design/Construction Mécanique Oct 2011 - Jul 2013
University of Bamenda

EMPLOYMENT

PHD Student Nov 2022

Scuola IMT Alti Studi Lucca, Lucques, Toscane, Italie · On-site

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Chef d'équipe Aug 2019

UR2-MSP, Dschang, Cameroun

Dirige une équipe donc le but est la modélisation du système cardiaque et quelques Arrythmies

Freelance Aug 2018

Indépendant, Cameroun · On-site

This section describes and presents all the skills acquired as a self-taught student.

Enseignant de Construction mécanique Apr 2017

Ministère de l'enseignement secondaire, Cameroun

Ingénieur projets Oct 2016 - Mar 2017

Cometal Cameroon, Douala, Cameroun

Dessins de Construction Mécanique Management Accueil A la tête de plusieurs équipes d'ingénieurs.

Stagiaire Jul 2013 - Oct 2014

Cometal Cameroon, Douala, Cameroun

SKILLS

Meshmixer

3D Slicer

SOLIDWORKS

FEniCx

ANSYS

FEniCS

Conception assistée par ordinateur (CAO)

Modélisation 3D

Génie mécanique

Programmation

FreeCAD

Autodesk Fusion 360

Impression 3D

Blender

Ingénierie

Bibliothèque numérique

AutoCAD

Analyse de données

Compétences analytiques

Design

Ingénieurs

Modélisation

LaTeX

MATLAB

Python (langage de programmation)

Programming with FEniCs

LANGUAGES

FRENCH

ENGLISH

HOBBIES

- Football
- Design
- Reading

CERTIFICATES

Blender 2.8.. From the beginners to experts Dec 2023

3D Slicer. Medical Imaging, 3D Modelling and 3D Printing - Beginners May 2024

REFERENCES

Alessio Gizzi
Universita Campus Biomedico di Roma, Italy, Rome
a.gizzi@unicampus.it

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IMT School for Advanced Studies Lucca, Italy, Lucca
marco.paggi@imtlucca.it

Pietro Lenarda
IMT School for Advanced Studies Lucca, Italy, Lucca
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Dan Rafiroiu
Technical University of Cluj-Napoca, Romania, Cluj-Napoca
dan.rafiroiu@ethm.utcluj.ro

Pelap Beceau
University of Dschang, Cameroon, Dschang