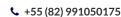# DANIEL GOMES DE MELLO FARIAS

Bachelor in Electrical Engineering
Master in Computational Knowledge Modeling
Master in Health Science and Technology (in progress)

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🔗 http://lattes.cnpq.br/0695887937325404

EDUCATION

Master's degree in Computational Modeling of Knowledge
Federal University of Alagoas (UFAL)

📅 January 2018 - July 2020   ⚲ Maceió - AL, Brazil

- Evaluation of Artificial Intelligence Techniques for Time Series Prediction and Classification.

Master's degree in Health Science and Technology
State University of Paraíba (UEPB)

📅 May 2018 - December 2020   ⚲ Campina Grande - PB, Brazil

- Performance Evaluation of the HL7 Protocol.

Bachelor's degree in Electrical Engineering
Cesmac University Center (CESMAC)

📅 January 2010 - December 2014   ⚲ Maceió - AL, Brazil

- Application of Wireless Sensor Networks with Web Access - Internet of Things (IoT).

EXPERIENCE

Senior Software Developer
Medroom

📅 Mar 2021 - Today   ⚲ Sao Paulo - SP, Brazil

- Virtual reality game developer for healthcare

Professor
State University of Health Sciences of Alagoas (UNCISAL)

📅 May 2021 - Today   ⚲ Maceió - AL, Brazil

- Radiologic Technology Associate Degree
- Safety Management Associate Degree

Federal Institute of Paraiba (IFPB)

📅 Aug 2020 - Oct 2020   ⚲ João Pessoa - PB, Brazil

- Renewable Energy Systems

National Program for Access to Technical Education and Employment (PRONATEC)

📅 Dezember 2016 - February 2017   ⚲ Maceió - AL, Brazil

- Automotive Electrics
- Programmable Logical Controller (PLC)

Graduate Researcher
Laboratory of Scientific Computing and Numerical Analysis (LaCCAN)

📅 January 2021 - May 2021   ⚲ Maceió - AL, Brazil

MY PHILOSOPHY

Without a crisis there are no challenges; without challenges, life is a routine, a slow agony. There is no merit without crisis. It is in the crisis that the best of each one emerges ... "(Albert Einstein)

EXTRA-CURRICULAR

Teaching Assistant
Federal University of Alagoas (UFAL)

📅 2019 - 2020   ⚲ Maceió - AL, Brazil

- Wireless Sensor Networks (WSN)

Cesmac University Center (CESMAC)

📅 2013 - 2015   ⚲ Maceió - AL, Brazil

- Calculus I and Calculus II
- Digital Simulation of Electrical Circuits

🏆 3rd **Best Paper**
XI North Northeast Congress of Research and Innovation, 2016, Maceió, Brazil.

SKILLS

Python   Matlab   Unity
HTML / CCS / JS   HL7/FHIR
Machine Learning (Deep Learning)

LANGUAGES

Portuguse   ●●●●●
English   ●●●○○
Spanish   ●●○○○

- Analysis of electronic and tax documents for the calculation of taxes and detection of violations of the tax legislation of Alagoas (Brazil).

Laboratory of Scientific Computing and Numerical Analysis (LaCCAN)

📅 September 2019 - June 2020   📍 Maceió - AL, Brazil

- Forecast of Solar Radiation with Deep Learning Techniques.

Undergraduate Researcher

Cesmac University Center (CESMAC)

📅 August 2012 - February 2014   📍 Maceió - AL, Brazil

- Determination of the Physical State of Conservation of Insulators using the Radio Frequency Technique.

- Definition of criteria for choosing a low cost wireless sensor network (WSN).

- Study of Human Machine Interface (HMI) Platforms Applied to the Digital Signal Processing (PDS) in Relation to Electromagnetic Interference Signals

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- Comparison between Wavelet Classifiers for Verifying the Conservation Status of High Voltage Glass Insulators for 69 kV Networks Using Artificial Neural Network.

Teacher

Public school

📅 September 2013 - December 2014   📍 Maceió - AL, Brazil

- Teaching Physics and Mathematics.

Internship

Bitcom Technology Company - Structured Cabling Services, including Projects, Consulting, Installations, Maintenance and Sales

📅 June 2013 - October 2013   📍 Maceió - AL, Brazil

- Electrical project developer.

PUBLICATIONS / PRESENTATIONS IN CONFERENCE

- Voltage Regulation For Residential Prosumers Using a Set of Scalable Power Storage. In: Energies 2021. ISSN: 1996-1073

- The Technology Applied to the Inspection of the Architectural Heritage of Maceio Commercial Center - Alagoas. In: Rehabend 2018, Caceres, Spain. Euro – American Congress - Construction Pathology, Rehabilitation Technology and Heritage Management. ISBN: 978-84-697-7032-0

- Application of Artificial Intelligence Techniques for the Classification of Wrist Movements in Time Series Generated by Electroencephalogram (EEG). In: V ERMAC - Regional Meeting of Applied and Computational Mathematics, 2018, Maceió, Brazil.

- Buildings and Advertising on the Street of Commerce of the Historic Center in Maceió: a Reality... And does the Legislation Control It?. In: XI North Northeast Congress of Research and Innovation, 2016, Maceió, Brazil.

- Heritage Education as a Tool in Combating the Irregularities of Advertising in Buildings at Street of Comércio / Maceió-AL. In: Academic Congress of Innovation and Technology – CAIITE, 2016, Maceió, Brazil.

- Remote Monitoring of an Environment Using Wireless Sensor Networks. In: Academic Congress of Innovation and Technology – CAIITE, 2016, Maceió, Brazil.

- Monitoring environments with difficult access using low cost wireless sensor networks. In: National Meeting of Electrical Engineering Students, 2015, Paulo Afonso, Brazil.

- For an exploratory education. In: Congreso Ibero Latinoamericano De Ciencias, Innovacion Y Educacion Technology 2014. Buenos Aires - Argentina.

- Practical Physics Class: Challenges and Possibilities. In: II International Symposium of Enseñanza de las Ciencias (SIEC 2014).