
## Paulo Lopes da Silva

Physicist (M. Sc.)

- São José do Egito - PE - Brazil
- Brazilian
- unmarried


## Skills

**Software development** 6+ yrs.

**Computer programming/ Linux/Windowsy** 10+ yrs.

**Internet business/ E-commerce** 4+ yrs.

**Web development** 2+ yrs.

**Big data/ Data Science/ Data science** 2+ yrs.

**Python and C++ technology** 2+ yrs.

**Internet of things** 1+ yrs.

**Cloud computing** 1+ yrs.

**German** L1

**English** C1

## Biography

I have an experimental background working on the CERN, the European Organization for Nuclear Research, Pierre Auger Collaboration and the KTeV Experiments at FERMILAB, USA. These three international collaborations were composed of many universities around the world, specially Europe, USA and Latin America. My work group on the NA48 - based in Germany and Switzerland - carry out on data analysis of this experiment. During 3 years I worked as a Ph.D candidate for the german group of the Johannes Gutenberg University as a fellow supported by the German Academic Exchange Program (DAAD). Since I concluded my fellowship in Germany I have been teaching courses of mathematics, statistics, physics, electronics and laboratory work at private colleges and universities in São Paulo and in João Pessoa, where I am living now. One of my academic tasks is to lead work groups of students into development of academic discussion or into the development and application of new technologies related with engineering and computer science and under the concept of StartUps e Fintechs. Recently, my focus on technologies has change towards modern concepts of Industrie 4.0, Internet of Things (IoT), Cloud Computer and Machine Learning. These are the base of a promising technology which tends to revolutionize and connect the global world via heterogeneous smart devices through seamless connectivity. Nowadays, I have interest in analyzing the impact of the IoT concept on the operations of modern organizations and the implementation of changes related to its use. The main areas of possibilities arising - not only in engineering - but also in other many basic types of emerging new business models are my object of studies and research.

## Work experience

**Assistant Professor** 05/2020 - 03/2022

Eletronics Engineering Teclogists - High School João Pessoa, PB

Development of projets on informatic and eletronics.

**Assistant Professor** 08/2018 - 12/2020

Department of Engineering

Wyden/ADTALEM/Kroton/YDUCs Universities, João Pessoa, PB

**Assistant Professor** 06/2014 - 06/2017

Department of Engineering UNIPÊ Educational Center, João Pessoa, PB

Lectures on Physics, Computer Science and Mathematics.

**Assistant Professor** 02/2005 - 06/2013

Department of Engineering UNINOVE Educational Center São Paulo, SP

Lectures on Physics and Laboratory of Physics.

**Assistant Professor** 02/2003 - 02/2014

Department of Physics. Federal University of Paraiba, Campina Grande -PB

Lectures on Physics and Laboratory of Physics.

## Education

**03/1999 - 06/2002**

**Ph.D in Physics**

Johannes Gutenberg University - Mainz, Germany

Particle Physics Field: „Messung Dalitz Zerfalls mit dem NA48 Detector“.

**07/1996 - 10/1998**

**Master Degee in Physics (M.Sc.)**

University of São Paulo - Brazil

Nuclear Physics Master's thesis: „Detection of Gamma Ray Burst with the Pierre Auger Detector“.

**03/1992 - 06/1996**

**Graduation in Physics (Bachelor Degree)**

University of São Paulo

Particle Physics Bachelor's dissertation: „Construction and test of a set of drift chambers for the KTeV Experiment at FERMILAB - USA“.

## Interests

- Tecnologies & Gadgets
- Fitness & Cooking
- Languages & Travel
- Philosophy

## Contact

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http://lattes.cnpq.br/1333159250664479

**CERN, the European Organization for Nuclear** — **05/2004 - 10/2004**

Research - Geneva, Switzerland

Fellowship at the Experimental Physics Division.

## Scholarship

**Ph.D** — **12/1998 - 06/2002**

DAAD: German Academic Exchange Service

CERN: European Organization for Nuclear Research

**Ms.C** — **07/1996 - 06/1998**

CAPES: Coordenação de Aperfeiçoamento de Pessoal de Nível Superior

Master of Science in Physics

**Graduation** — **02/1993 - 06/1996**

CNPq: Conselho Nacional de Desenvolvimento Científico e Tecnológico

Bachelor of Science in Physics

## Publications


- NA48 Collaboration. "A PRECISION MEASUREMENT OF DIRECT CP VIOLATION IN THE DECAY OF NEUTRAL KAONS INTO TWO PIONS.". In: *Phys.Lett.B544:97-112,2002*.
- NA48 Collaboration. "A MEASUREMENT OF $k_s \longleftrightarrow \pi_0\gamma\gamma$THE LIFETIME". In: *Phys.Lett.B537:28-40,2002*.
- NA48 Collaboration. "A PRECISE MEASUREMENT OF THE DIRECT CP VIOLATION PARAMETER $Re\frac{\epsilon'}{\epsilon}$". In: *Eur.Phys.J.C22:231-254,2001*.


Recife, 4th August 2022

Paulo Lopes da Silva