



## CONTACTS



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## SKILLS

Development	<div style="width: 100%;"><div style="width: 100%;"></div></div>
Optimization	<div style="width: 100%;"><div style="width: 100%;"></div></div>
Communication	<div style="width: 100%;"><div style="width: 100%;"></div></div>
Management	<div style="width: 100%;"><div style="width: 100%;"></div></div>

## LANGUAGES

Portuguese <sup>1</sup>	<div style="width: 100%;"><div style="width: 100%;"></div></div>
English	<div style="width: 100%;"><div style="width: 100%;"></div></div>
French <sup>2</sup>	<div style="width: 100%;"><div style="width: 100%;"></div></div>
Spanish	<div style="width: 100%;"><div style="width: 100%;"></div></div>

<sup>1</sup>Native speaker. <sup>2</sup>Currently living in France.

## ADDITIONAL RESEARCH

### SYSTEMATIZATION OF NURSING ASSISTANCE TO INJURED CHILDREN AT THE JOÃO PAULO II CHILDREN'S HOSPITAL.

Federal University of Viçosa, Brazil.

Advisor: PhD. José Augusto Miranda Nacif

### DEVELOPMENT OF FREE SOFTWARE FOR THE SYSTEMATIZATION OF NURSING ASSISTANCE TO HOSPITALIZED CHILDREN, ADOLESCENTS AND PREGNANT WOMEN.

Federal University of Minas Gerais, Brazil.

Advisor: PhD. Paula Gonçalves Bicalho

### A SYNTHESIS AND SIMULATION TOOL FOR NML CIRCUITS

Federal University of Minas Gerais, Brazil.

Advisor: PhD. Omar Paranaíba Vilela Neto

## INTERESTS & HOBBIES

**Interests:** Open-Source, Linux, Marathon, Social programs.

**Hobbies:** Mountain Bike, Hiking and Salsa Cubaine.

### Achievements:

- Winner of Programming Marathon of the UFV Computer Week 2014

- 2<sup>st</sup> place in the Hackathon IN-Auvergne 2017 (business and programming marathon)

## REFERENCES

- Matthieu CHARDY  
(matthieu.chardy@orange.com)
- PhD. Hervé KERIVIN  
(kerivin@isima.fr)
- PhD. Omar P. V. Neto  
(omar@dcc.ufmg.br)

# ISAIAS FARIA SILVA

## PH.D. COMPUTER SCIENTIST

I'm a Ph.D. student at CNAM in partnership with Orange Telecommunications in France. In my thesis I have been working on battery management with can be seen as a production scheduling problem mixed with the transport scheduling problem. In short, I am trustworthy, hard-working, eager to learn and I have a genuine interest in Computer Science, Operations Research and Optimization.

## EDUCATION

### PHD IN COMPUTER SCIENCE

2019 - current

#### CNAM & ORANGE LABS - FRANCE

Ph.D. in Computer Science with focus in Operations Research-Combinatorial Optimization at *Conservatoire National des Arts et Métiers* and *Orange France*.  
**Subject:** *Smart grid and optimization of flexible network interactions with energy markets.*

### COMPUTER ENGINEERING & MASTER OF SCIENCE

2016 – 2018

#### UNIVERSITY OF CLERMONT-AUVERGNE, ISIMA\* - FRANCE

Bachelor's Degree in Computer Engineering and  
Master in Computer Science with focus on Operations Research/Optimization.  
**Subject:** *Use of the Volume Algorithm to solve the Steiner Tree Problem.*

### COMPUTER SCIENCE

2014 – 2018

#### FEDERAL UNIVERSITY OF MINAS GERAIS - BRAZIL

Bachelor's Degree in Computer Science.

### COMPUTER TECHNICIAN & HIGH SCHOOL

2010 – 2012

#### FEDERAL UNIVERSITY OF VIÇOSA - BRAZIL

Computer technician course concomitant with high school

\*Academic exchange between the Federal University of Minas Gerais and the ISIMA (1<sup>st</sup> in ranking)

## FURTHER EDUCATION

### NETWORK ADMINISTRATION. FEDERAL UN. OF VIÇOSA - BRAZIL

2013

Process conducted by the Brazilian program PRONATEC

### GOOGLE DIGITAL ACTIVE CERTIFICATION - FRANCE

2017

## PROFESSIONAL EXPERIENCE

### RESEARCH ENGINEER

2019 - current

#### ORANGE FRANCE – PARIS, FRANCE

I work on the strategy to use batteries installed for backup to participate in the energy market. I have been involved in the proposal of mathematical methods and algorithms which provide optimal instructions for battery usage minimizing the company's energy cost.

### TRAINEE IN APPLIED MATHEMATICS

2018

#### ORANGE FRANCE – PARIS, FRANCE

I worked on the optimization of the company's **Steering of Roaming**. The goal is to allocate customers in affiliate networks when roaming abroad, minimizing the roaming cost for Orange.

### TRAINEES IN COMPUTER SCIENCE

2013<sup>1</sup> / 2016<sup>2</sup>

#### CTNANOTUBES<sup>1</sup> / SESI MINAS<sup>2</sup>– BELO HORIZONTE, BRAZIL

<sup>1</sup>Development of company's internal software and online visual identity.

<sup>2</sup>Teacher in informatics for children and adolescents from low-income communities.

### FOUNDER

2013 – 2018\*

#### YES MÉDICOS – BELO HORIZONTE, BRAZIL

I am the founder of YES Médicos, a brazilian start-up that develops software for clinics and doctors. I developed the platform and managed the company acquiring more than a 120 clients in more than 7 cities in Brazil. <https://yesmedicos.com.br>. \*I left the company in 2018. It still operates.

## PUBLICATIONS

- **Managing batteries of a telecommunications company in order to minimize the total energy cost participating in the curtailing market.** I. Faria, C. Bentz, M. Bouhtou, M. Chardy, and S. Kedad-Sidhoum. *Attended to be presented at the Hot Topics: Optimal transport and applications to machine learning and statistics Workshop, May 2020.*
- **NML Designer: A tool for project and simulate nanomagnetism circuits.** Thiago R. B. S. Soares, Isaias F. Silva, Omar P. Vilela Neto. *NanoComputing Workshop - NaCoWo2015 -02/2016, pp 1-4*
- **New Methodology for Design and Simulation of NML Circuits.** Thiago R. B. S. Soares, Isaias F. Silva, Luiz G. C. Melo, Omar P. Vilela Neto. *LASCAS 2016, pp. 259-262.*