

Alexandre **Ribeiro João Macedo**

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Education

X- École Polytechnique

Palaiseau, Île-de-France, France

CYCLE D'INGÉNIEUR POLYTECHNIEN

2015 - Present

- Studies in sciences and engineering: applied mathematics and computer sciences. Expected graduation in 2018.

UFMG- Universidade Federal de Minas Gerais

Belo Horizonte, MG, Brazil

B. S. MECHANICAL ENGINEERING

2012-2013; 2015

- 4th year student. Graduation put on hold in the beginning of 2016.

UofT- University of Toronto

Toronto, ON, Canada

VISITING STUDENT

2014

- Engineering studies: bioengineering and signal processing.

Experience

Thales Research & Technology

Palaiseau, Île-de-France, France

ENGINEER INTERN

Jun. 2017 - Aug. 2017

- Wrote specifications for consensus algorithms using TLA+ and model checked it using TLC. Wrote a visualizer for the results in Javascript.

morLAB/UofT- Medical Operations Research Laboratory

Toronto, ON, Canada

UNDERGRADUATE RESEARCH ASSISTANT

Summer 2014

- Acquired data for pandemic disease spread simulation model and did minor modifications on the model.

LRSS/UFMG- Laboratório de Robótica Soldagem e Simulação (Robotics, Welding and Simulation Laboratory)

Belo Horizonte, MG, Brazil

Oct. 2012 - Dec. 2013

UNDERGRADUATE RESEARCH ASSISTANT

- Assisted PhD students in preparing experiments for their thesis.

Colégio Santo Antônio

Belo Horizonte, MG, Brazil

TEACHING ASSISTANT

Mar. 2012 - Aug. 2013

- Assisted high school students by clarifying their questions in physics and mathematics.

Languages

Portuguese Native Speaker

English Fluent TOEFL iBT (Dec. 2013): 103/120

French Advanced TCF Compréhension (Apr. 2016): C1

Technical Skills

Programming Knowledgeable in C++, Java, Python, MATLAB, Javascript

O.S. Linux, Windows

Other \LaTeX , Git, ROS, TLA+

Volunteer Work

GRUFAJE

Belo Horizonte, MG, Brazil

TEACHING ASSISTANT

Aug. 2015 – Nov. 2015

- Helped less fortunate students aging from 17 to 70 prepare for a high school validation test and university entry examinations.