ANA LUCIA CRUZ

Robotics Engineer & Science Communicator

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EDUCATION

PhD in Mechanical Engineering

INRIA (French research institute for digital sciences), ENS Rennes

Mov. 2013 - Nov. 2016

♀ France

Master's degree in Advanced Robotics

École Centrale de Nantes

m Sept. 2011 - Sept. 2013

♀ France

Bachelor's degree in Mechatronics

Universidad Tecnológica Centroamericana

🛗 Jan. 2007 - Mar. 2011

Honduras

ADDITIONAL EDUCATION

Robotics Nanodegree

Udacity (with BOSCH, Electric Movement, KUKA)

May 2017 - Oct, 2017

♀ Online

Autonomous navigation of mobile robots, object recognition, pick and place, deep learning for semantic image segmentation.

Machine Learning

Coursera (by Stanford University)

🛗 Jan. 2017 - Mar. 2017

Online

WORK EXPERIENCE

STEM Lead

La Scuola Possibile

2018 - 2019

♀ Italy

Lead curriculum developer & teacher of STEM subjects (including robotics & coding) from elementary school to high school.

Software engineer

Objective Software (BMW partner)

🛗 Jan. 2018 - April. 2018

♀ Italy

Assisted in the development and maintenance of car features, as part of the embedded systems team (lights domain).

MY LIFE PHILOSOPHY

"There is no greater education than one that is self-driven."

MOST PROUD OF



Promoting STEM

I design and organize workshops to promote STEM and to democratize STEM education.



Inspiring women to pursue careers in

I have been part of initiatives focused on motivating Honduran girls to pursue careers in STEM.



Winner Fondation Centrale Scholarship



Speech at Les Invalides, Paris

I had the chance to talk about my country and how the Fondation Centrale scholarship helped me become a robotics engineer.

LANGUAGES

English

Spanish

French

Italian

TECHNICAL SKILLS

Robotics Coding Mechanical design
Biomechanics Bio-inspired control
Machine learning Artificial Intelligence

MATLAB Python C++

ROS Simulink V-rep CATIA

PhD student

INRIA - Project ENTRACTE (Anthropomorphic Action Planning and Understanding)

2013-2016

♀ France

Designed new and compact motion controllers for virtual characters (with bio-inspired actuators) based on human motion data.

Supervisor mechatronics projects

ENS Rennes

2014-2016

♀ France

Designed and supervised freshman year projects at the ENS university.

Robotics engineer (Internship) **IRCCyN & Laval University (Canada)**

Mar. 2013 - Aug. 2013

France

Designed a graphical user interface for the analysis and parametric design of Cable Driven Parallel Robots (CDPRs).

Mechatronics engineer

3D Solutions

🛗 Jul 2010 - Dec. 2010

Honduras

STEM ADVOCACY

STEM Goals day and mini-hackathon **STEMETTES & TD Securities**

Ctober 2019

♀ London

Move It Forward Torino - Women for digital and social innovation

Digital Leadership Institute

♀ Italy

Speaker at the "International girls in ICT day"

International Telecommunications Union

Honduras

Speaker at an event by IEEE/WIE (Women in Engineering) **WIE. UNITEC**

Mar. 2016

Honduras

Speaker at the event "Just like robotics, you have a great future"

École Centrale de Nantes

Feb. 2016

♀ France

Speaker at CIC Bank's ceremony at Les Invalides

Fondation Centrale

m Dec. 2012

♀ France

PERSONAL SKILLS

Motivated

Organized

Perseverant

Attentive to detail

Instructive speaker

Clear and concise writer

HOBBIES

- Writing
- Reading
- Tutoring
- Playing piano (classical, pop/rock)

REFEREES

ADRIANO TRAVAGLIA

- @ Director AFGE, Start-up and EU Project Manager, General Director of Torino 3.0
- ▼ Travaglia@afge.eu

Italy

Prof. STEPHANE CARO

- @ Research director (ROMAS team) LS2N, École Centrale de Nantes
- Stephane.Caro@ls2n.fr

France

Prof. PHILIPPE CARDOU

- @ Professor, Mechanical Engineering, University of Laval
- ☑ Philippe.Cardou@gmc.ulaval.ca

Canada