

ANA LUCIA CRUZ RUIZ

Robotics Engineer & STEM Advocate

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EDUCATION

PhD in Control and Signal Processing

INRIA, ENS Rennes

Nov. 2013 – Nov. 2016 France

Master's degree in Advanced Robotics

École Centrale de Nantes

Sept. 2011 – Sept. 2013 France

Bachelor's degree in Mechatronics

Universidad Tecnológica Centroamericana

Jan. 2007 – Mar. 2011 Honduras

Robotics Nanodegree - Term 1

Udacity (in collaboration with Nvidia & Electric Movement)

May 2017 – Oct. 2017 Online

Machine Learning

Coursera (by Stanford University)

Jan. 2017 – Mar. 2017 Online

ENGINEERING EXPERIENCE

Software engineer

Objective Software (BMW partner)

Jan. 2018 – April. 2018 Italy

Robotics R&D engineer (Internship)

IRCCyN & Laval University (Canada)

Mar. 2013 – Aug. 2013 France

Mechatronics engineer

3D Solutions

Jul 2010 – Dec. 2010 Honduras

MY LIFE PHILOSOPHY

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

MOST PROUD OF



Promoting STEM

I am organizing STEM workshops for honduran children from impoverished areas.



Inspiring women to pursue careers in tech

I motivate women/girls from difficult areas in Honduras through talks.



Winner Fondation Centrale Scholarship



Speech at Les Invalides, Paris

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

LANGUAGES

English ●●●●●

Spanish ●●●●●

French ●●●●●

Italian ●●●●●

TECHNICAL SKILLS

Kinematics Dynamics Control

Machine learning Mechanical design

Python MATLAB C++

ROS Simulink V-rep CATIA

TEACHING EXPERIENCE

Volunteer teacher Spanish

Speak/Biblioteca civica centrale

📅 2018-Ongoing

📍 Italy

Supervisor freshman-year projects

ENS Rennes

📅 2014-2016

📍 France

Physics, Math, English tutor (9-16 year olds)

Freelance

📅 2009-2011

📍 Honduras

Volunteer teacher in Computer Science and Math

Los Sauces school for girls

📅 2006

📍 Honduras

SCIENCE COMMUNICATION

Move It Forward Torino - Donne per il digitale e l'innovazione sociale

Digital Leadership Institute

📅 April 2018

📍 Italy

Scientific presentations (Conferences, workshops)

IRCCyN, INRIA

📅 2013 - 2016

📍 France, Portugal, Germany

Speaker at the International Girls in ICT Day

International Telecommunications Union

📅 April 2016

📍 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

Fondation Centrale

📅 Dec. 2012

📍 France

PERSONAL SKILLS

Motivated

Organized

Perseverant

Instructive speaker

Attentive to detail

Clear and concise writer

HOBBIES

- Popularizing science and technology
- Designing STEM/robotics workshops for children
- Tutoring
- Playing piano (classical, pop/rock)
- Writing

REFEREES

Prof. STEPHANE CARO

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France

Prof. PHILIPPE CARDOU

@ University of Laval

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Canada