

# ANA LUCIA CRUZ

## Robotics Engineer & STEM Educator

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## EDUCATION

PhD in Mechanical Engineering

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

## ENGINEERING EXPERIENCE

Software engineer

Objective Software (BMW partner)

Jan. 2018 – April. 2018    Italy

Robotics engineer (Internship)

IRCCyN & Laval University (Canada)

Mar. 2013 – Aug. 2013    France

Mechatronics engineer

3D Solutions

Jul 2010 – Dec. 2010    Honduras

## TEACHING EXPERIENCE

STEM Lead (Curriculum development & teaching)

La Scuola Possibile

2018 - 2019    Italy

Supervisor freshman-year projects

ENS Rennes

2014-2016    France

Tutor: Physics, Math, English

Freelance

2009-2011    Honduras

## 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 tech

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

Volunteer teacher in Computer Science and Math

**Los Sauces school for girls**

📅 2006

📍 Honduras

## STEM ADVOCACY

Move It Forward Torino - Women for digital and social innovation

**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 at Les Invalides

**Fondation Centrale**

📅 Dec. 2012

📍 France

Volunteer translator/interpreter

**Honduras this week**

📅 2004

📍 Honduras

## PERSONAL SKILLS

Motivated

Organized

Perseverant

Instructive speaker

Attentive to detail

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

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Italy

**Prof. STEPHANE CARO**

@ Research director (ROMAS team) LS2N, École Centrale de Nantes

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**Prof. PHILIPPE CARDOU**

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Canada