

# 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

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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

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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

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Motivated

Organized

Perseverant

Instructive speaker

Attentive to detail

Clear and concise writer

## HOBBIES

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

## REFEREES

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**Prof. STEPHANE CARO**

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