

ANA LUCIA CRUZ RUIZ

Robotics Engineer

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EDUCATION

Robotics Nanodegree

Udacity (with BOSCH, Electric Movement, KUKA)

May 2017 – Ongoing Online

Machine Learning

Coursera (by Stanford University)

Jan. 2017 – Mar. 2017 Online

PhD in Control and Signal Processing

INRIA, ENS Rennes

Nov. 2013 – Nov. 2016 Rennes, France

Master's degree in Advanced Robotics

École Centrale de Nantes

Sept. 2011 – Sept. 2013 Nantes, France

Bachelor's degree in Mechatronics

Universidad Tecnológica Centroamericana

Jan. 2007 – Mar. 2011 Tegucigalpa, Honduras

EXPERIENCE

Robotics R&D engineer (Internship)

IRCCyN & Laval University (Canada)

Mar. 2013 – Aug. 2013 Nantes, France

Mechatronics engineer

3D Solutions

Jul 2010 – Dec. 2010 San Pedro Sula, Honduras

PROJECTS

Deep learning for semantic image segmentation

Robotics Nanodegree

Oct. 2017

Tools: TensorFlow, Keras, Unity game engine, Python

Object recognition with PR2 robot (simulation)

Robotics Nanodegree

Aug. 2017 – Sept. 2017

Tools: ROS, Gazebo, Rviz, Python

MY LIFE PHILOSOPHY

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

MOST PROUD OF



Inspiring women to pursue careers in tech

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



Developing computational thinking

I am organizing workshops to develop computational thinking in honduran children from impoverished areas.



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.

TECHNICAL SKILLS

Kinematics

Dynamics

Machine learning

Control

Mechanical design

C++ (Basic)

Python (Advanced)

MATLAB (Advanced)

ROS

Simulink

V-rep

CATIA

LANGUAGES

English



Spanish



French



Italian



Pick and place with KUKA KR210 robot (simulation)

Robotics Nanodegree

📅 Jul. 2017 – Aug. 2017

Tools: ROS , Moveit!, Gazebo, Rviz, Python

Autonomous navigation of a mobile robot (simulation)

Robotics Nanodegree

📅 May 2017 – Jun. 2017

Tools: Python, Unity game engine

ARACHNIS: A GUI for the design of cable-driven parallel robots

Master's Thesis

📅 Mar. 2013 – Aug. 2013

Tools: MATLAB

Design of a 3-DoF planar parallel robot

Master's project

📅 Jun. 2012 - Jul. 2012

Tools: CATIA, MATLAB

PRESENTATIONS/TALKS

Scientific presentations (Conferences, workshops)

IRCCyN, INRIA

📅 2013 – 2016

📍 France, Portugal, Germany

Speaker at the "International Girls in ICT Day"

International Telecommunications Union

📅 April 2016

📍 Tegucigalpa, Honduras

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

WIE, UNITEC

📅 Mar. 2016

📍 Tegucigalpa, Honduras

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

École Centrale de Nantes

📅 Feb. 2016

📍 Nantes, France

Speaker at CIC Bank's ceremony at Les Invalides

Fondation Centrale

📅 Dec. 2012

📍 Paris, France

PERSONAL SKILLS

Perseverant

Motivated

Organized

Attentive to detail

Instructive speaker

Clear and concise writer

HOBBIES

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

REFEREES

Prof. STEPHANE CARO

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