ANA LUCIA CRUZ RUIZ

Robotics Engineer

@ analu.610@gmail.com 📞 +39-370-346-9076 📍 Turin, ITALY 🔗 www.analuciacruz.me/

in linkedin.com/in/acruzruiz ⌗ github.com/Tonks89

EDUCATION

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

Robotics Nanodegree
Udacity (with BOSCH, Electric Movement, KUKA)
📅 May 2017 – Ongoing   📍 Online

Machine Learning
Coursera (by Stanford University)
📅 Jan. 2017 – Mar. 2017   📍 Online

EXPERIENCE

Software engineer
Objective Software (BMW partner)
📅 Jan. 2018 – April. 2018   📍 Torino, Italy

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

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.

Promoting STEM
I am organizing STEM workshops for 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   ●●●●○

Object recognition with PR2 robot (simulation)
Robotics Nanodegree

📅 Aug. 2017 – Sept. 2017

Tools: ROS, Gazebo, Rviz, Python

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 STEM/robotics workshops for children
- Tutoring
- Playing piano (classical, pop/rock)
- Writing

REFEREES

Prof. STEPHANE CARO
@ LS2N, École Centrale de Nantes
✉ Stephane.Caro@ls2n.fr
France

- - - - - - - - - - - - - - - - - - - -

Prof. PHILIPPE CARDOU
@ University of Laval
✉ Philippe.Cardou@gmc.ulaval.ca
Canada