KAROLINA LADINO PUERTO

ROBOTICS ENGINEER - PROFESSOR - HARDWARE HACKING

Bogotá, Colombia
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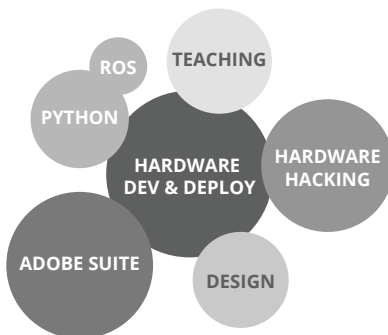ladinokarolina@gmail.com
about.me/karoladino

WHO I AM?

I'm Karobot, I'm 23, I always wanted to make robots so here I am. As a robotics engineer I have many challenges as women and professional. I have been working on development of robots and diferent kind of devices. I also have + 5 years of work experience in various positions. I love nature, open source communities and meeting new people. I built a profile of leadership and empowerment to make people the best of them. Passionate about work and always giving more.
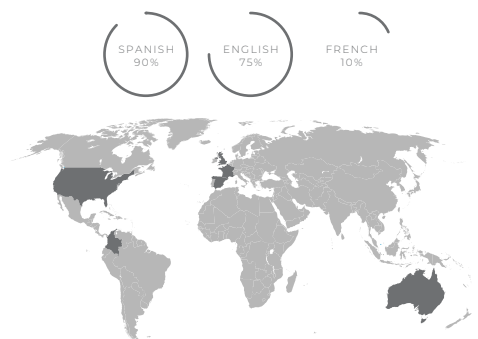
@karobotco
in/karoladinop

EDUCATION - SCHOLARSHIPS

COLLEGE - TECH IN ROBOTICS AND AUTOMATION
University of Bogotá Jorge Tadeo Lozano | Aug 11' - Apr 14'
I started with this degree because I always wanted to make robots and in my country this was the only way to do it. Im glad now to make this decision. Here I learned all the techniques that I know.

BEST SCORE SCHOLARSHIP
University of Bogotá Jorge Tadeo Lozano | Aug 13'
As college student I could focus just in my education progress, this allowed me to win the best score scholarship. That helped me to sponsor my personal projects, materials and tools that I need for work.

BACHELOR'S DEGREE - ROBOTICS ENGINEER
University of Bogotá Jorge Tadeo Lozano | Jan 15' - Apr 18'
I always like to improve in each process, this degree allowed me to learn about automation in all the possible areas. This allowed me to be a hardware developer. This degree is about Robotics and Automation.

ROSCON MADRID - DIVERSITY PROGRAM SCHOLARSHIP
ROSCON - Open Robotics | Sep 18'
As a master student I presented my portfolio to ROSCon, I was learning ROS2 and I wanted to know the community and bring with me ideas for create it in Colombia, now I'm working on it.

MAGISTER DEGREE - BIG DATA - SCHOLARSHIP
University of Bogotá Jorge Tadeo Lozano | Aug 18' - Apr 20'
I won the opportunity of teach Mathematics and study the magister degree for free. I planning to focus in this area because I love to manage big amounts of data and use it in robotics.

HARVARD - CRI SUMMER PROGRAM SCHOLARSHIP
University of Bogotá Jorge Tadeo Lozano | Jun 15' - Aug 1'
As a engineering student I won this awesome oportunity for be part of a Harvard Summer School in Paris for two months. I learned so much about the city and the improvents that she have and published my first research: bit.ly/bioKaro

PROFESSIONAL SKILL

- ROS
- TEACHING
- PYTHON
- HARDWARE DEV & DEPLOY
- HARDWARE HACKING
- ADOBE SUITE
- DESIGN

LANGUAGE SKILLS

- SPANISH 90%
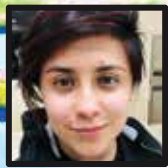- ENGLISH 75%
- FRENCH 10%

CORE COMPETENCES

- High Networking
- Sourcing
- Fluid Communication
- Resilient
- Persistent
- Company expert
- Creative and innovator in progress
- Great organizer
- Flexible
- Listener
- Agile
- Problem Solver
- Self-taught
- Confident
- Risky
- Patience

REFERENCES

ARTURO CORTÉS | Graphic Designer at Apple Tree
+57 311 801 29 71 | arthy.11.20@gmail.com

ANDRÉS LUJÁN | Front-End Developer at Huge Inc.
+57 319 461 94 51 | andres.root.coder@gmail.com

AWARDS

ROBOTIC PEOPLE AWARDS - SOCIAL IMPACT 14' - 15'
Acknowledgment of social work with turtle robots and children, as an objective to teach how to care animals and environment.

HACKATHONS - 16' - 17' - 17'
2 AngelHack hackathons and AI Society - Artificial Inteligence. 1 HACKcelerator trip to San Francisco, US.

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EXPERIENCE

PROJECT DEVELOPER INDUSTRIAL AUTOMATION
INTECMO.NET | Jan 13' - Dic 13'
I worked in many projects of industrial automation and diferents industries. As Bio Diesel and water treatment, I was in charge of programing PLC and wiring sensors thought the plants.

ROBOTICS LAB COORDINATOR
UTadeo | Jan 14' - May 15'
Coordinator of materials and spaces for working in projects for the students of Robotics Engineer. Planning to workshops and supporting projects.

TECH DEVELOPER - PROJECT ADVISOR - OPERATIONS
TadeoLAB - Art and Science Lab | June 15' - April 17'
As Tech Developer and Project Advisor, I led and guided many projects with artist and tech people. As to help students in their research projects. I also gave workshops about tech and project management.

CEO HEROBOTS.CO
Herobots.co | May 16' - Jul 16'
I created this projects with 4 friends, is about natural preservation of species in danger of extinction. We made a robot, you buy it, you support a real animal through a fundation and working for make his environment better for life.

MATH PROFESSOR
University of Bogotá Jorge Tadeo Lozano | Aug 18' - Now
I working in new ways to motivate the students to learn math for their lifes. How to see it as a tool but no an enemy. I'm trying to use differents context to improve their skills and focus in what matters around the maths.

HARDWARE FREELANCER
Freelance | Oct 14' - Now
I started to work as freelancer because I saw a need in artist and developers to use and create hardware to interact or acquire information. So I can do it!

DEAN OF STUDENTS - SUPERIOR COUNSEL
Utadeo | Feb 17' - Feb 18'
As Dean of Students, I participated in meetings about the improvements and changes in careers and financial paths. I also worked in one project against bullying and repulse between students in the university.

COO - HARDWARE PROJECT LEAD - RECRUITER
Flash.Beer Inc. | June 17' - April 18'
As a COO I was in charge of planning all the operations of the company. Also I the incorporation of the company in US. Presented in the Global Demo Day with AngelHack in front on investors looking for seed capital.

STARTUPS

HEROBOTS.CO - 16'
Acknowledgment of social work with turtle robots and children, as an objective to teach how to care animals and its environment.

FLASH.BEER - 17'
Flash.Beer is a hardware and software solition that solves the issue of bar waiting times. The hardware attaches to a bar table and through and app users can pour their own drink in seconds. Pay for what you pour.

CONFERENCES

iROS MADRID 2018
This conferences is the biggest in robotics field, I applied and was chosen with a paper to a workshop: Multi-Robot Perception-Driven Control and Planning for share my project Particle Bots in front of 200 persons. (www.iros2018.org)

WOMAN TECH MAKERS - BOGOTÁ
I made a conference for this community about bioinspired robots, it was recorded http://bit.ly/wtmKaro and help me share my knowledge with powerful women.

COMMUNITY - VOLUNTEER

IEEE UTadeo
Chief | Jan 14' - Nov 15'
With a wonderful team, we change the path of the branch, we made more events, found more speakers for free and sponsor the membrecy of more students to allow them to find information about IEEExplore and more international networks.

FOP - FUNDACIÓN MUJERES POR COLOMBIA
Moderator | May 18'
I moderated a tech panel about: Mechanical, Mechatronics, Metalurgic, Robotics and Automation Engineering. All of this is to motivate high school girls to study the STEAM careers.

PYLADIES COLOMBIA
Lead | May 18' - Now
This community re-start this year, we are a few but committed but we have made awesome things as help the Medellin, Cali and Bogota comminities to find sponsors, speakers, and quorum to growth more every day. Our aim is educated more women and men to generate more diversity in tech industry.

ANGEL HACK
Ambassador | Feb 18' - Now
This company makes 50+ hackathons around the world. I support the Bogotá and Medellin, helping more people to improve their pitch skills and bringing their ideas to reality.

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PROJECTS

ADRIANA MARMOREK - PENÉLOPE

As Freelancer | Oct 15'

With my parther Andrés Luján, we help the artist to consolidate the versions of the piece and make it more reliable and robust. This piece make an allegory of Penelope of Ulises, make a request to Twitter with a word "LOVE" and print in a thermal printer the last tweet that she found and last with a shredder of paper shred the love as the real Penelope. http://bit.ly/penelopeKaro

PARTICLE BOTS

As bachelor student | Aug 17'

This a swarm of robots which focus on search people (source of light) inside a controlled enviroment. They don't know where they are they start with a relative location from another bot and when one of them find the source make a Kalman Extended Filter to get the path to find the source for each bot.

bit.ly/okiROS2018

JUAN CORTÉS - HYBRID IN MOMA

As Freelancer | Nov 15'

In November 15' Juan Cortés make a workshop and exposition with A New Cross team, David Velez and Santiago Cortés Reina. I helped them to develop some pieces for both activities. One of them was wiring a big background for a performace with lights and optic fiber. http://bit.ly/MOMAKaro

A SHARK

As college student | Aug 13'

This structured was designed with bio mechanisms based on white sharks and internal structure through dimensional software projection, I generated forms that were cut in laser cutting machine obtaining a functional internal prototype, with 3 axes of motion and basic programming.

OUR SPACE - TADEOLAB

As tech advisor in TadeoLAB | Apr 15'

The team created a interactive space where the people can learn about the light spectrum and create stars from particles and video processing. I made with Germán Benavides the Processing code for this interaction. http://bit.ly/espacioKaro

LITTLE TURTLES

As college student | May 14'

I created 35 mini turtles bioinspired in 2 species in danger speacies (Green turtle and Caguama turtle) and made a symbolic liberation in a plaza of my university to remember of the public the importance of take care of the nature, 35 children liberate the turtles. My inspiration was the work of Aminta Jauregui and her foundation. http://bit.ly/liberationpostKaro   http://bit.ly/liberationKaro