

# Ramón Calvo González

<https://ramoncalvo.com>

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Birth date: 6th of May, 1999

## EDUCATION

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- **University of Alicante**

*Bachelor of Robotics Engineering — (Current grade: 9.14/10)*

Alicante, Spain

*September 2017 – June 2021*

- **IES Cabo de la Huerta**

*High School — (Grade: 9.74/10)*

Alicante, Spain

*September 2015 – June 2017*

- **IES Cabo de la Huerta**

*Middle School — (Grade: 9.81/10)*

Alicante, Spain

*September 2011 – June 2015*

## EXPERIENCE

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- **University of Alicante – HURO Research group**

*Research Internship — Ministry Collaboration Grant*

Alicante, Spain

*October 2020 – June 2021*

- Trajectory optimisation and stabilisation of walking gaits for the Talos robot.

- **IEEE SB UA**

*Secretary*

Alicante, Spain

*May 2020 – May 2021*

- **QuixMind**

*Extracurricular Internship*

Alicante, Spain

*October 2019 – June 2020*

- **Simulation:** Modeling of a control ready robot forklift and its industrial environment in Gazebo.
- **Control:** Wrote linear controllers for pallet alignment.
- **Sensors:** Acquired data from 3D perception sensors (RS-LiDAR-16 & Intel RealSense) and processed them in order to perform control tasks.
- **Communications:** TCP connection speed up of up to 2x by using data compression.
- **Docker:** Deployment of the application by using containers.

## LANGUAGES

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**Spanish** — Native

**English** — Proficient (Cambridge C1: grade A)

## AWARDS

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- **Ministry Collaboration Grant**

*Research internship in University of Alicante's DFESTS department.*

Spanish Government

*2020 – 2021*

- **High School Graduate with Honors**

*Graduated first in class.*

IES Cabo de la Huerta

*June 2017*

## COURSES AND TRAINING

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- **Udacity**

*Intro to Deep Learning with PyTorch*

*July 2019*

- **Coursera**

*Machine Learning*

*June 2019*

- **University of Alicante**

*CUDA/C++ Workshop*

Alicante, Spain

*March 2019 – April 2019*

- **University of Alicante**

*German: A1*

Alicante, Spain

*September 2017 – December 2017*

## PROJECTS

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- **Image Captioning**

*Implementation in PyTorch of the paper 'CNN+CNN: Convolutional decoders for Image Captioning'. December 2019*

- **Double Dueling DQN**

*Implementation of Double Dueling DQN in PyTorch.*

*August 2019*

- **3D Cellular Automata**

*3D visualisation of a cellular automata using C++ & Modern OpenGL.*

*November 2018*

- **Scientific Calculator**

*Calculator designed from scratch, based on an ARM Cortex M0+ processor.*

*February 2017*

## CONFERENCES

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- **II International Conference of Artificial Intelligence of Alicante**

*Attendee*

*Alicante, Spain*

*November 2019*

- **ICIAM 2019**

*Volunteer*

*Valencia, Spain*

*July 2019*

- **SWYP 2019**

*Attendee*

*Alicante, Spain*

*April 2019*

- **IROS 2018**

*Volunteer at IEEE stand*

*Madrid, Spain*

*October 2018*

- **Young Professionals in SPACE**

*Attendee*

*Barcelona, Spain*

*July 2018*

## SKILLS

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- **Programming languages**

Proficient	—	C, C++, Python
Medium	—	MATLAB, Octave
Basic	—	Rust

- **Frameworks:** ROS, Modern OpenGL, SDL, PyTorch.

- **Linux:** medium sysadmin skills.

- **Tools:** GDB, GNU Make, Git, SSH.

- **CAD:** KiCAD, Autodesk Inventor, Autodesk FUSION 360.

- **Embedded Systems:** AVR, STM32, MSP430, FreeRTOS, libopencm3.

- **Machine Learning:** Deep Learning, Reinforcement Learning.

- **Other :** L<sup>A</sup>T<sub>E</sub>X, 3D printing, soldering.

## MISCELLANEOUS

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- **GitHub:** <https://github.com/noctrog>

- **LinkedIn:** [Link](#)