

Ramón Calvo González

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Birth date: 6th of May, 1999

EDUCATION

- **University of Alicante** Alicante, Spain
Bachelor of Robotics Engineering — (Current grade: 9.14/10) *September 2017 – June 2021*
- **IES Cabo de la Huerta** Alicante, Spain
High School — (Grade: 9.74/10) *September 2015 – June 2017*
- **IES Cabo de la Huerta** Alicante, Spain
Middle School — (Grade: 9.81/10) *September 2011 – June 2015*

EXPERIENCE

- **University of Alicante – HURO Research group** Alicante, Spain
Research Internship — Ministry Collaboration Grant *October 2020 – June 2021*
 - Trajectory optimisation and stabilisation of walking gaits for the Talos robot.
- **IEEE SB UA** Alicante, Spain
Secretary *May 2020 – May 2021*
- **QuixMind** Alicante, Spain
Extracurricular Internship *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

Spanish — Native

English — Proficient (Cambridge C1: grade A)

AWARDS

- **Ministry Collaboration Grant** Spanish Government
Research internship in University of Alicante's DFESTS department. *2020 – 2021*
- **High School Graduate with Honors** IES Cabo de la Huerta
Graduated first in class. *June 2017*

COURSES AND TRAINING

- **Udacity** *July 2019*
Intro to Deep Learning with PyTorch
- **Coursera** *June 2019*
Machine Learning
- **University of Alicante** Alicante, Spain
CUDA/C++ Workshop *March 2019 – April 2019*
- **University of Alicante** Alicante, Spain
German: A1 *September 2017 – December 2017*

PROJECTS

- **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

- **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

- **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^AT_EX, 3D printing, soldering.

MISCELLANEOUS

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

- **LinkedIn:** Link