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**
  Intro to Deep Learning with PyTorch — *July 2019*
- **Coursera**
  Machine Learning — *June 2019*
- **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** Alicante, Spain
  Attendee *November 2019*
- **ICIAM 2019** Valencia, Spain
  Volunteer *July 2019*
- **SWYP 2019** Alicante, Spain
  Attendee *April 2019*
- **IROS 2018** Madrid, Spain
  Volunteer at IEEE stand *October 2018*
- **Young Professionals in SPACE** Barcelona, Spain
  Attendee *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** : LaTeX, 3D printing, soldering.

Miscellaneous

- **GitHub**: github.com/noctrog
- **LinkedIn**: Link