Ramón Calvo González

https://noctrog.github.io

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Education

- **University of Alicante** — Alicante, Spain
  Bachelor of Robotics Engineering — (Current grade: 9.15/10) — *Sep. 2017 – Present*

Experience

- **QuixMind** — Alicante, Spain
  Internship — *July 2019 – Present*
  - **ROS Robot Simulation**: modeled a robot forklift and its environment, simulated using Gazebo.
  - **Sensors**: took measurements from perception sensors (LIDAR, Intel RealSense) and processed them in order to perform control tasks.
  - **Communications**: connected the ROS application to a Windows app through TCP/IP, using compression to accelerate the transmission rate.
  - **Docker**: containarized ROS environment so it can be run anywhere.

Courses and training

- **Udacity**
  Intro to Deep Learning with Pytorch — *July 2019*
- **Coursera**
  Machine Learning — *June 2019*
- **University of Alicante**
  CUDA/C++ Workshop — *March 2019 – April 2019*

Skills

- **Languages**: C, C++, Python, MATLAB/Octave, Rust
- **Tools**: ROS, Modern OpenGL, SDL, PyTorch, LaTeX
- **Linux**: Bash, GDB, GNU Make, Vim, Tmux, Git, SSH, basic sysadmin skills
- **CAD**: KiCAD, Autodesk Inventor, Autodesk FUSION 360
- **Embedded Systems**: AVR, STM32, FreeRTOS, libopencm3
- **Machine Learning**: Deep Learning, Reinforcement Learning
- **Other** : 3D printing, soldering

Languages

- **Spanish**: Native
- **English**: Fluent (B2)

Projects

- **Image Captioning**: implementation in Pytorch of the paper CNN+CNN: Convolutional decoders for Image Captioning
- **DDQN**: implementation of Double Dueling DQN in Pytorch, trained in Breakout OpenAI environment
- **3D Cellular Automata**: A 3D version of Game of Life using C++ & OpenGL.
- **Bluetooth-controlled 3-stage coil gun tank**: powered by an AVR MCU and controlled through an Android App.
- **Scientific Calculator**: designed from scratch, powered by an ARM Cortex M0 MCU using MBED.

Conferences

- **II International Conference of Artificial Intelligence of Alicante** — Alicante, Spain, *November 2019*
- **ICIAM 2019** — Valencia, Spain, *July 2019*
  Volunteer
- **SWYP 2019** — Alicante, Spain, *April 2019*
- **IROS 2018** — Madrid, Spain, *October 2018*
  Volunteer at IEEE stand
- **Young Professionals in SPACE** — Barcelona, Spain, *July 2018*

Miscellaneous

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