

Carlos Molina Ordóñez

Curriculum Vitae

Calle Las Hilanderas, 2
41920
Spain

☎ +34 610 76 16 43

☎ +34 954 17 14 82

✉ carlosmolina.ord@gmail.com

📄 cmolinaord.github.io



Education

2008–2017 **Bachelor's Degree**, *Universidad de Sevilla*, Sevilla, *Degree in Physics*.

2007–2008 **High school**, *IES Severo Ochoa*, San Juan de Aznalfarache, *Science and technology*.

2002–2006 **Secondary school**, *IES Severo Ochoa*, San Juan de Aznalfarache.

Experience

Vocational

2013–2017 **Analog design and layout of integrated circuits**, *Teledyne Anafocus*, Sevilla.

I was in charge of design of electronic analog blocks for CMOS image sensors manufactured in the company. I worked for 5 or 6 different projects working along with teams of 8-10 people including analog and digital designers. My responsibilities during the projects were:

- Design and simulation of simple analog blocks as OTA's, bandgap references, current conveyor.
- Design of physical layout of simple analog blocks or macroblocks (read-out channel, analog control row block).
- Layout physical verifications: LVS (Layout vs Schematic), DRC (Direct Rules Check), Antenna.
- Documentation and exposition of results of simulations and tests.

2013 **Analog design of integrated circuits**, *Teledyne Anafocus*, Sevilla.

6-months scholarship.

Detailed achievements:

- Analog layout design using Cadence®Virtuoso layout tools.
- Analog electrical design using Cadence®Analog Design Environment (ADE).
 - Design of Operational Transconductance Amplifier.
 - Analog electrical simulation.

Other jobs

2017–2018 **Home Teacher**, (*Maths, physics...*), Sevilla.

70 hours

2012–2013 **Assistant Rowing Coach**, *Club Náutico Sevilla*, Sevilla.

I was in charge of a children rowing team aged from 10 to 14 years old, during one year finishing with the National Championships.

2009–2014 **Home Teacher**, (*Maths, physics...*), Seville.
140 hours

Languages

Spanish **Native**
English **Cambridge Certificate B2 (172)**
French **Basic level**

Computer skills

Operative systems Linux, Windows
Office Microsoft Office (Word, Excel, Power Point) and LibreOffice (Writer, Calc)
Text editors L^AT_EX, Atom, vim
Programming languages Python, C, bash, markdown
Scientific software Matlab, Mathematica, Geogebra,
Version control Git
Electronics Arduino, Raspberry Pi
Graphic design Inkscape, GIMP, Blender, OpenSCAD, 3D printing

Interests

Rowing I practice rowing since I was 8 years old at Club Nautico Seville. I've competed in almost every Spanish Rowing Championships, and rowed some races as an international rower. I've always been able to combine my studies with training sessions (2h/day, 7days/week)

Photography I love taking pictures since I was a child. I use to cover rowing events and competitions

Space and astronomy I've always loved the space and astronomy. I follow every space exploration milestone.

Scientific communication I use to write a scientific blog explaining physical phenomena in a simple way, and I use to give talks about space, physics or open source

Projects contributions

Wikipedia I contribute to Wikipedia (basically in spanish) by:

- Creating and expanding articles about rowing, space exploration, physics...
- Creating SVG graphics for Wikimedia Commons
- Adding data to Wikidata project.

SunPy It's a community-developed, free and open-source solar data analysis environment written in Python

Remarkable experiences

March 2017 **#Sentinel2Go** event in ESOC (Darmstadt, GER).

I was invited to assist to the launch of Sentinel-2A satellite as a social media agent. We could visit the ESOC facilities guided by ESA scientists and engineers, and we could ask questions about rocket launches and space exploration missions which are managed by ESA. I met a lot of people from many countries in Europe, and it showed me an open door to lots of things I want to do in the near future.

October 2017 **#OpenESTEC** event at ESTEC (Noordwijk, NED).

I traveled to the Netherlands to visit the ESTEC open-door day, where me and a spanish friend studying the master in Aerospace Engineering in TU Delft, were visiting the facilities and labs, and we could ask questions to many engineers and scientists working in a variety of fields wihtin ESA. I also met some students from DARE (Delft Aerospace Rocket Engineering) group