

CV

MARCOS RUPÉREZ CERQUEDA

PERSONAL DATA



Name: Marcos Rupérez Cerqueda
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Training

- Nov12-mar14** IE Business School
Master on Business Administration, Global MBA (Part-time) + Corporate Finance module
- 2007-2009** Aalborg University (Denmark)
MSc Renewable energies and Hydrogen technology
(2-year master in English)
- 2002-2010** University of Zaragoza
Industrial Engineering (5-year degree)

Work Experience

- Feb 19- Now** **EWM partner in charge of the technical area** (<http://www.ewmsoluciones.com/>)
EWM Company designs, improves and imports machines for the circular economy of waste. My functions as a partner are (1) the optimization and management to install machines onsite for customers, (2) as well as the redesign of certain parts and their components.
- Jan 18 -Mar19** **Director of Griébal Scout Foundation** (<http://griebal.org/>)
Director of the foundation in charge of the rehabilitation of the abandoned village of Griébal to convert it on a camp site for child's. Since young I was collaborating with this NGO and for one year I was working as director of the Project managing rebuilding, finances and also institutional relations.
- Mar 14- Now** **Quionne Company partner (engineering prototyping Company) (Now capital partner)**
Owner of 50% of a company that is specialized on engineering projects, product and prototype development. My main function in the company was project manager and engineer. <http://quionnengineering.space/>. The main value of Quionne is its multidisciplinary team of engineers motivated to solve complex challenges in a creative and fast way. The main working areas of Quionne are: Research, Development and production of carbon fiber products, plastic and metal, renewable energies, electric and hydrogen mobility, car and boat competition and product design.

Projects, functions and personal achievements:

- Carbon fiber patented product (Rollerski) with own design (**3D and mechanical simulations**). The manufacturing process was designed and optimized for mass production. The production process was set up and the product sold in 20 countries. ([link](#))
- **FIRST ELECTRIC CAR ON DAKAR RALLY RAID:** I was the person responsible for the electric system and power train of the first electric car ever on Dakar rally raid. I did the conceptual design of the system and components, charging infrastructure and systems, **mechanical design (3D)**, manufacturing of the vehicle and vehicle assistance on race. ([Project Description](#)). Working for 2 months on Chile and Argentina.
- **Hydrogen Propulsion of 36M carbon fiber Yacht:** We designed the hydrogen fuel cell propulsion system for a Dubai luxury yacht. Dubai customer([Project description](#))
- Carbon fiber parts and products design and development
- Carbon fiber molds design (**3d design and finite elements**)
- Plastic parts design for **3d printing and molding**.
- Battery pack design and manufacture (Electric component and mechanical assembly)([link](#))
- Hybrid multicopter design
- Research on graphene integration on carbon fiber resin
- Industrial process and equipment design

2015 - actual

Speaker and media

- I do motivational speaking for engineers and entrepreneurs, based on my personal and entrepreneur experiences as engineer. Short motivation speech: [link](#), conference: [link](#) YouTube Chanel ([link](#)) radio collaboration.

2011- Mar 2014

Project Manager and business development at H2 Foundation

Foundation for the development of new hydrogen technologies in Aragón (R+D Centre)

Achievements:

- Design, manufacture and operation manager of the renewable energy and electric traction system of the first zero emission sailing yacht on circumnavigating the globe in the Vendee Glob 2012 regatta. IMOCA ACCIONA 100% ECOPOWERED. (Conceptual design, wirings, 3D design of the equipment, manufacture , installation and race operation). ([Project video](#)) I was part of an international team working on New Zealand. ([project explanation](#))
- Technical consultancy to companies on hydrogen and electric drive trains.
- R+D contract negotiation
- Institutional representation
- Business representation
- University master teacher on renewable energy.
- Online teacher on hydrogen technologies.

Jan-2009/2011

Research engineer on hydrogen fuel cells at H2 Foundation

Foundation for the development of new hydrogen technologies in Aragón (R+D Centre)

Achievements:

- Mechanical and system design of Formula Zero kart, Hydrogen go-kart for international competition based on hydrogen fuel cells. 2nd position on the international championship 2009.
- Mechanical design and manufacturing of hydrogen pressure tanks (3d design, finite element simulation)
- Product design and simulation of a portable mini fuel cell product. (3D design and dynamical simulations of flows)

Additional training

- Full Solid Works presence course (3D mechanical design, wirings and simulation) Araworks
- Full Solid Works flow simulation presence course (Official Araworks)
- AutoCAD
- Low view environment programing
- Web design (WordPress).
- High altitudes working environments certificated
- Child camp leader certificate
- Coordinator of a team of scout's leaders.
- Teacher on several courses for disabled and unemployed people.

Computing

Engineering Software: Solid Works, AutoCAD, Mat lab Simulink, LabVIEW, EES, Ansys, Wind-pro, Homer, Blender,

Design Software: Dreamweaver, Adobe Premiere, Adobe After Effects, Photoshop, blender

Office software: Advance MS Office, Excel Expert.

Languages

Spanish: Native

English: Advance level writing and speaking, (International master coursed on English language for 2 years, giving public conferences on international organism for more than 100 people at time, working on international projects and teams on New Zealand, France)

Hobbies:

- Alpine Skiing, Cross country skiing, Tele mark skiing, trekking, rock climbing, alpinism, paragliding, scouts
- Mechanics, Engineering, electronics, cars, racing drones...
- New culture and international trips