

Sergi Pons Freixes

Curriculum Vitae

Experience

2023–Present

Senior Staff Software Engineer, *Qualcomm*, California.

2021–2023

Staff Full Stack Engineer, *Qualcomm*, California.

Responsibilities:

- Collaborate with engineering teams and executive stakeholders to conceptualize, design, and implement web-based applications
- Mentor and tutor more junior developers, providing guidance and support to help them grow and improve their skills
- Ensure that applications are developed in line with the company's standards and guidelines

2018–2021

Engineering Manager, *Eastridge Workforce Solutions*, California.

Responsibilities:

- Ensure the Eastridge Cloud scalability, stability and availability
- Be responsible for optimizing the Eastridge Cloud performance
- Determine the best practices for code quality
- Design and build modular applications and APIs
- Improve efficiency and clear roadblocks for software engineers to improve their performance
- Create, delegate, coordinate, and prioritize development tasks
- Meet with internal and external clients to understand their needs and business objectives

2018–2021

Lead Engineer, *Eastridge Workforce Solutions*, California.

Same duties as Software Engineer, with the added responsibilities:

- First responder to engineering requests, bugs and alerts
- Creation, delegation, prioritization and coordination of engineering tasks
- Responsible for code quality
- Deployment of code to QA and production systems

2015–2016

Software Engineer, *Eastridge Workforce Solutions*, California.

Responsible for designing and building modular applications and RESTful APIs using:

- Python web frameworks [Pyramid]
- SQL object-relational mappers [SQLAlchemy]
- Version control systems [Git with Gitflow]
- Collaborating with front-end engineers

2013–2014

Performance Simulation Engineer, *Rhea Group—European Space Agency, Netherlands.*

Expert on the System Performance Simulator and the Ground Processor Prototype for the Sentinel 3 satellite.

- Responsible for the simulators and processors
- Planning, execution and evaluation of data generation and processing tasks
- Development of helper tools and software useful for related activities

2011–2013

Spanish Trainee, *European Space Agency, Italy.*

Propose, implement and evaluate data processing methodologies to assess the viability of remote sensing coral monitoring.

2007–2011

Assistant Researcher, *Marine Technology Unit—Spanish National Research Council, Spain.*

- Design and development of hardware and software for embedded systems and hyperspectral sensors
- Design and development of software for workstations
- Simulation of hyperspectral scenarios
- Supervision of Master Thesis'

2004–2006

Assistant Researcher, *Polytechnic University of Catalonia, Spain.*

Development of hardware and software for workstations, embedded systems and hyperspectral sensors.

Education

2015

Doctor of Philosophy [Ph.D.], *Polytechnic University of Catalonia and Marine Technology Unit—Spanish National Research Council.*

Thesis: Do-it-yourself instruments and data processing methods for developing marine citizen observatories.

Supervisors: Jaume Piera, Luigi Ceccaroni.

2006

Master degree in Telecommunications Engineering, *Polytechnic University of Catalonia.*

2004

Telecommunications Engineer, *Polytechnic University of Catalonia.*

Languages

Catalan

Native proficiency

Spanish

Native proficiency

English

Full Professional proficiency

Italian

Limited working proficiency