Marcos Oriol Pagonabarraga

Neuroengineer & Software Engineer

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> I am a restless individual with a strong interest in neuroscience.
> I am eager to keep growing and developing myself by diving into
> new research and connecting with others who share my passion.

Career History

AI - ML Engineer

IDNEO Technologies Inc.

Barcelona, Spain (2024 - present)

Development of AI models for embedded systems in the automotive industry, including data collection, model training, and deployment.

Software Engineer Collaboration

PRBB - Hospital del Mar

Barcelona, Spain (2024 - 2025)

Use of focused ultrasound for spinal cord neuronal stimulation. Medical product development startup.

Neuroengineering Research Intern

i3S - Neuroengineering & Computational Neuroscience

Porto, Portugal (Feb 2024 - Jun 2024)

Development of neuron models for detection of patterns associated with memory in the hippocampus of mice. The neuron model was then mapped to neuromorphic hardware.

Capabilities

Technologies

Frontend

Backend

AI / ML

DevOps & Tools

Skills

Self-learning, Creativity, Research, Leadership, Motivation, Communication

Languages

Spanish / Catalan	Native
English	Proficient (C1)
Portuguese	Basic

Projects

Spiking Neural Networks

Neuromorphic computation on low-power microcontrollers for closed-loop signal detection applications.

 MarcosOriolPago/lava-snn-ripples

portfolio

marcos.oriol-tech.com - Biography and portfolio website showcasing my projects and skills.

 MarcosOriolPago/portfolio

RF Rehabilitation Car

Development of a fully 3D printed rf car for arm rehabilitation. Controled two arduinos and a custom Bluetooth COM protocol.
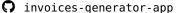
Invoices Generator App

Public web app for generating custom invoices and monitoring financials for freelancers.

 invoices-generator-app

Education

M.Sc. Neuroengineering

Universidad Politécnica de Cataluña (UPC)

Sep 2025 - Jan 2027

B.Sc. Bioengineering

Universidad Internacional de Cataluña (UIC)

Sep 2020 - Jun 2024

High School - Technology

Viaro Global School

Sep 2018 - Jun 2020