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 (Nov 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 (Sep 2024 - Dec 2024)

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

Languages

Spanish / Catalan   Native

English   Proficient (C1)

Portuguese / French   Basic

Projects

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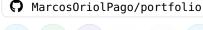Neuromorphic computation on low-power microcontrollers for closed-loop signal detection applications.

🔗 MarcosOriolPago/lava-snn-ripples

🌐 Website portfolio
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