



# 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



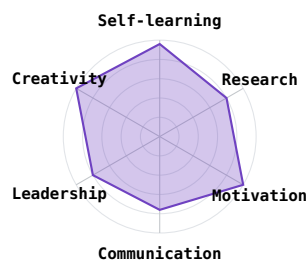
#### AI / ML



#### 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. Controlled 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 Polit cnica de Catalu a (UPC)

Sep 2025 - Jan 2027

### B.Sc. Bioengineering

Universidad Internacional de Catalu a (UIC)

Sep 2020 - Jun 2024

### High School - Technology

Viaro Global School

Sep 2018 - Jun 2020