José Cruz Sánchez Ramírez

Email: jose.sanchez.ramirez@ciencias.unam.mx

Education

MBA & Master in Innovation and Entrepreneurship

Business School in Barcelona, Spain, 2024

B.Sc. in Mathematics

UNAM, Mexico, 2021

Research and Publications

Crosstalk Phenomenon in Piezoelectric Materials in Ultrasound Transducers

Author: Dr. Israel Sánchez Domínguez, 2022 Institution: Faculty of Sciences, UNAM

Expert System LEDA

Author: Dr. Manuela Escobedo, 2021 Institution: Engineering Institute, UNAM

Description: Expert system for energy efficiency in buildings at University

City, Mexico.

Plant Chat

Author: Dr. Isaac Rudomín, 2019

Institution: GRAPHTEC

Intangible Birds

Author: Dr. Isaac Rudomín, 2019

Institution: C3 UNAM

Description: Project featured in the workshop "Animals and the (Playable) City" at the Sixth International Conference on Animal-Computer Interaction

(ACI 2019), Haifa, Israel.

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Language Skills

- Spanish (Native)
- English (Advanced)
- German (Basic)

Recent Courses and Certifications

With certificate of participation:

- High-performance scientific computing in C++, Jülich Supercomputing Centre, 2023
- Introduction to Scalable Deep Learning, Jülich Supercomputing Centre, 2023
- Introduction to Unreal Engine for Science, Jülich Supercomputing Centre, 2023
- Summer School on Quantum Information Processing- Gate-based and Annealing Systems, Jülich Supercomputing Centre, 2023

Without certificate:

- \bullet Getting started with AI on supercomputers, Jülich Supercomputing Centre, 2023
- Directive-based GPU programming with OpenACC, Jülich Supercomputing Centre, 2023
- \bullet Advanced Parallel Programming with MPI and OpenMP, Jülich Supercomputing Centre, 2023
- Introduction to Bayesian Statistical Learning, Jülich Supercomputing Centre, $2024\,$

Professional Experience

ACIATII SC.

Position: Founder and CSO Period: January 2016 - Present

Description: Creating an association for arts, science, and technology.

Groasis Electronics SA. de CV.

Position: R&D and Scientific Consultant Period: January 2019 - October 2021

Key Projects:

- NetCode "SMART GRID CODE": Big data processing and AI algorithms for a smart grid interface in medium and high-voltage load centers.
- EMITT: Ultra high-frequency electromagnetic motor, patent pending.

TW-NS SA. de CV.

Position: CSO and IT Manager

Period: January 2019 - September 2021

Main Project:

- Virtual Flocks: Ubiquitous virtual environment using IoT tools for collabo-

rative virtual experiences.

Grupo Tradeco SA de SRL.

Position: IT Manager

Period: December 2014 - December 2018

Description: Digitalization of architectural projects and development of a real-

time facial recognition system.

Technical Skills

• Programming Languages: C++, Cuda C, Python, R, Rust

• Cloud Environments: AWS, Azure, EBRAINS, Google Cloud

• Project Management Skills: Git, Lean programming, Scrum

• Areas of Expertise: Autonomous and Industrial Robotics, GPU Programming, Machine Learning, Statistics

Core Competences

• Innovative Research & Development

• Structured & Analytical Thinking

• Project & Program Management

• Problem Resolution and Articulate Communication