José Cruz Sánchez Ramírez

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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.

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:

- Getting started with AI on supercomputers, Jülich Supercomputing Centre, 2023
- Directive-based GPU programming with OpenACC, Jülich Supercomputing Centre, 2023
- 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 collaborative 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:** Python, C++, Cuda C, R, Unreal Engine
- **Cloud Environments:** Azure, Google Cloud, AWS, EBRAINS
- **Project Management Skills:** Lean programming, Scrum
- **Areas of Expertise:** Statistics, Machine Learning, GPU Programming, Autonomous and Industrial Robotics

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Core Competences

- Innovative Research & Development
- Structured & Analytical Thinking
- Project & Program Management
- Problem Resolution and Articulate Communication