Víctor David Silva

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Experience

IMPSAIA Engineer

Mendoza, Argentina July 2024 – Present

• Developing a fault detection system for solar panels using artificial intelligence. Thermal images are collected by a drone, and malfunctions are identified and categorized by type using computer vision.

Automation Engineer

November 2021 – Present

- Developed and designed a Programmable Logic Controller (PLC) program and Human-Machine Interface (HMI) for a butterfly valve at a hydraulic power plant.
- Developed and designed Programmable Logic Controller (PLC) program, Human-Machine Interface (HMI) and Supervisory Control and Data Acquisition (SCADA) system for a level luffing crane system using TIA Portal, for the Argentina Navy.
- Developed and designed Programmable Logic Controller (PLC) program and Human-Machine Interface (HMI) for an overhead crane system using TIA Portal, for a nuclear power plant.
- Resolved issues in power plants through remote interventions, offering efficient solutions to challenges associated with databases and SCADA systems.

Education

Universidad de Buenos Aires

Artificial Intelligence Specialist

Buenos Aires, Argentina October 2023 - Present

Universidad Nacional de Cuvo

Mechatronics Engineer

Mendoza, Argentina November 2022

- Recognition for academic performance (2022).
- 1st place Contest Design and Development of Robots for Productive or Service Applications Preliminary design (2021).
- 3rd place "Emprende U, Premio FUNC 2021 a la Innovación" Awards to innovation (2021).
- 1st place Process Simulate international challenge (2021).
- One year of formal coursework in Artificial Intelligence.

Capitán Daniel Manzotti

Electronics Technician

• National flag bearer (the first in the class).

Mendoza, Argentina December 2012

Technical Skills

Data and Software Engineering:

- Python (Numpy, Pandas, Scikit-Learn, Matplotlib, SeaBorn)
- Machine Learning (SVM, Decision Trees, Random Forest)
- Deep Learning (CNN, RNN, Encoder-Decoder, Transfer Learning)
- Evolutionary algorithm
- Time series analysis

- Computer Vision (Open CV, Pytorch, Pytorch Lightning)
- Natural Language Processing (Tensorflow, Keras)
- Diffusion models
- Generative IA tools
- Label Studio
- SQL
- Java

Industrial Automation

- PLC programming
- HMI design
- SCADA development
- TIA Portal (Siemens)
- Schneider
- Indusoft SCADA
- Matlab
- Atmel Studio (AVR) and Arduino
- C/C++

Language: Spanish (native), English (B2).