Frans Ramirez Neyra

Mechatronic Engineer

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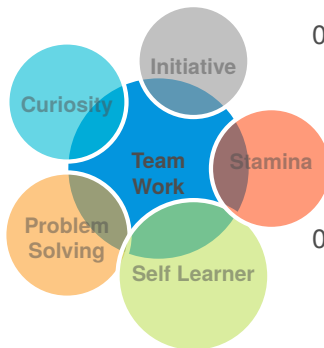
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FransRamirezNeyra

Personal Skills

- Initiative
- Curiosity
- Team Work
- Stamina
- Problem Solving
- Self Learner

Experience

03/17 - Now **Software Engineer**   Connus International

A company dedicated to the automation, integration and innovation of services, and technologies oriented to the private security sector.

- Integration of an LPR software solution using C++, training OpenALPR for Mexican plates. The software is working now in all crossings between Mexico and the USA
- Development of an implementation on Python of the AWS face recognition software as a solution for security on communication towers.
- Development of a platform for IoT monitoring using MERN technology. Which works together with an ARM embedded system where python software deploys solutions as face recognition, video surveillance, infrastructure monitoring, and sensor communication.
- Improving prototypes to production development using Docker Staks and Swarms to achieve a better performance and longtime maintenance.
- Improving ARM based devices to make them robust solutions implementing Debugging, Logging and Stress tests.
- Adaptation of ML technologies (Detectron, Fast-RCNN, YOLO) for Object Detection and data harvest and characteristics extraction

06/18 - Now **Manager & Developer**   Nure

QBO Project - Reverse Image Search Engine Development based on a Modern Neuronal Network characteristics extraction. Then Vectorizing results and indexing them on Elastic Search to make search easy and fast. I dockerize solution with Nvidia runtime and docker orchestration for autoscaling.

05/10 - 09/16 **Research Intern**   McGill University

I Worked with Graduate and Postgraduate students on investigation projects

- Electronic and mechanical design of drones with Control Engineering implementation.
- Automatic Maneuvers for Fixed Wings Airplanes research.

09/16 - 12/16 **Project Investigator**   ITESM

Investigation in FPGA systems developing digital filters IIR or FIR and controllers. Contrasting and evaluating performance in analogic and digital filters and controllers

Education

2012 - 2016 **Bachelor's Degree in Mechatronic Engineering**   ITESM

Mechatronic Engineering

2004, 2009 **Technical Degree in Informatics**   CEO Manuel T. Calle, Universidad San Luis Gonzaga

Wireless Connections and Internet Infrastructure

Projects

- Design and construction of a scaled airplane, Aero Design SAE || Time: 6 months

- Robot construction for FIRST Robotic Competition || Time: 3 Years

- Development of a line following by camera car for FreeScale Cup || Time: 2 Years

- Investigation in XO computer complement development. || Time: 1 Year

Honors & Awards

12/2016	**Doble Golden Lamb Award**	Career Activities
	Awarded by enthusiastic participations on extracurricular activities along the Career	
12/2016	**Excellence Award**	Best GPA on Career Generation
	Awarded by having the best GPA up to 9.5 out of 10	