

# Frans Ramirez Neyra

## Mechatronic Engineer

### Address

Gutenberg 16  
Anzures, Mexico City

### Tel & Skype

+52 722 3632083  
frans.ramirez

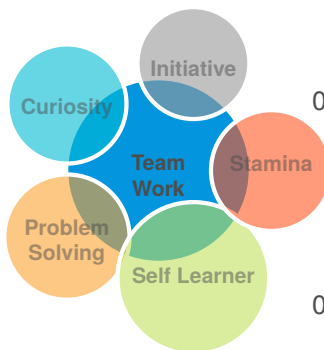
### Mail

franscaraveli@  
gmail.com

### Web & Git

franscaraveli.hol.es  
github.com/Frans06  
repo.qbo.tech/profile  
itesm.academia.edu/  
FransRamirezNeyra

## Personal Skills



## Experience

### 03/17 - 09/18 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
- 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 Stacks 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) with Tensor Flow and Caffe for Object Detection and data harvest and characteristics extraction

### 06/18 - Present Manager & Developer

Nure

QBO Project - Reverse Image Search Engine Development based on a Convolutional Neuronal Network (VGG-16) 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	<b>Doble Golden Lamb Award</b> Awarded by enthusiastic participations on extracurricular activities along the Career	<a href="#">Career Activities</a>
12/2016	<b>Excellence Award</b> Awarded by having the best GPA up to 9.5 out of 10	<a href="#">Best GPA on Career Generation</a>