Curriculum Vitae

I decided to separate my professional experience into two main groups. The first and longest one (Contractor experience) describes the jobs I have had as an independent contractor. This first group is also split in two: long term contracts and short term contracts. The second group (Formal experience) enlists the jobs I have had as a payroll employee.

Contractor experience

As an independent contractor, I have been able to clinch a series of long-term and short-term contracts. Furthermore, after many years of being employed by different enterprises, NGOs and government institutions, I founded two companies, [TWK](#) and [ICARUS FS](#). Currently, both of my companies are operating.

Short term contracts

Recreational flight simulator

Biblio-Avión Utopía
2019–2020

My company, [ICARUS FS](#), was hired to transform a decommissioned Boeing 737 into a recreational flight simulator. My business partner and I built a simulator system based on King Air over the plane cockpit. I created a Python library for our own hardware and to be used with XPLANE9. The body of the airplane was refurbished and turned into a digital library for impoverished children who live in the outskirts of Mexico City.

News coverage:
https://mexiconewsdaily.com/news/boeing-737-becomes-a-library-in-mexico-city/?fbclid=IwAR2EohYLKeVLfI0NC-eSxI1tE4JwwE2Un9LGOXY3ThWrk8iQNyQzyGrELtk

Professional flight simulator

Escuela de Aviación Vitar
2017–2019

This simulator, commissioned by a flight school, was built on XPLANE9. I installed and connected the hardware to software running on Ubuntu 16; it enslaved two other machines,

which is a common professional simulator assembly. In January 2017, the Mexican government certified this simulator for professional pilot training and graduation.

Long term contracts

Server and LMS administration

USAID/Chemonics International
2020–present

My company signed this contract in March 2020. Currently, TWK is implementing a training platform program for local police and district judges in different areas of Mexico. I installed, configured and maintained the website on Amazon AWS, and I have a contract for the rest of the year for maintenance and content creation in H5P. Some other contents are made on JS and PHP.

Website: http://mexicojpv.com/

Server administration and developer services

Inteligencia Pública
2012–present

TWK also works with Inteligencia Pública, an NGO founded in 2012 with the purpose of championing social improvement and political liberties. We started building the company's main website, but, after almost eight years of a solid partnership, TWK has also developed and given maintenance to all their other subsidiary websites.

Websites

- Inteligencia Pública (2012–present)
- PCGSC (2018–present)
- Héroes ciudadanos (2018–present)
- CEJUC (2020)

Server administration and developer services

Travesías Media
2011–2018
Travesías Media, a publishing company, first hired me as an employee. My main task was to develop a guide to Mexico City's historic downtown (*Guía del Centro Histórico*). This project was

eventually bought by the government of Mexico City. After the success of this publication, I became an independent service provider for Travesías Media. During this time, I was in charge of developing new websites and concepts, and of maintaining the infrastructure for those platforms.

Websites

- [Guía del Centro Histórico](#) (2011)
- [Revista Gatopardo](#) (2014–2018 | Changed)
- [Travesías digital](#) (2014–present)
- [Travesías media](#) (2014–present)
- [Club Travesías](#) (2014–2018| Changed)
- [Espacio Travesías store](#) (2014–present)
- [Local](#) (2016–present)
- [Stylemap Vancouver](#) (2016–present)

These are just the most important websites developed for Travesías Media. I also did some internal CRM systems,which were managed and maintained on three CentOS based servers, along with the websites.

Server administration and digital services provider

Conferencia del Episcopado Mexicano A.R.
2012 - 2016

Provided server administration and other services for the Conference of Mexican Bishops. I maintained and gave technical support to the almost 30 websites of the different Mexican dioceses and other Catholic organizations, one of which remains a client of TWK to this day. Complementary services were given to the institution, like technical advice on TV production. Also, for three months I worked as the interim PR director.

Website: https://cem.org.mx/ing/

Website administration

Since 2014, I have been selling website administration services for small companies and individuals who need help on server configuration for their sites. Those are in addition to the companies already mentioned. Currently, I maintain and manage almost 30 websites on a cloud based virtual machine. Here is an example cluster on DigitalOcean.

Website	Company	Client since
barricasyvinedos.com	Barricas y Viñedos SR de RL	2017
fundacionfaustorico.org	Fundación Fausto Rico	2017
haciendamontefalco.org	Hogar y Cultura A.C.	2016
haciendatoshi.org	Hogar y Cultura A.C.	2016
heroesciudadanos.mx	PCGSC, A.C.	2017
marketdynamic.mx	MDM SA. de C.V.	2014
pcgsc.com	PCGSC, A.C.	2017
inteligenciapublica.org	PCGSC, A.C.	2014

Formal Experience

Website and UI designer/developer

Market dynamic measure
2004–2007
Mexico City, Mexico

I developed the company's website in plain HTML, and their interactive business presentations and some dashboards in ActionScript 3.0. After that, I designed some user interfaces for interactives. In 2005, this was made from an external source, I used AS 3.0 and xml to upload all the data into the platform. Eventually, all of this was launched on the web by using the old Flash and Cold Fusion relationship.

Website: http://marketdynamic.mx/

Production Support

Secretaria de Educación Pública (Ministry of Public Education)
2009–2010
Mexico City, Mexico

My main task was to ensure that TV and media productions operated smoothly, which meant supervising the proper functioning of broadcast networks during live transmissions. During this time, I was introduced to After Effects. Eventually, I helped in the development of some templates for automatic effects.

Website designer/developer

CPM
2010–2011
Mexico City, Mexico

This is a digital signage and advertising company that works for the Mexico City Airport. My main functions included developing, designing and maintaining the company's website, making the videos that presented content on the airport screens between flight information and designing some sign boards for Terminal 2.

Rotary sign boards: http://www.grupocpm.com.mx/productos_rotarys.php
Website: http://www.grupocpm.com.mx/

Educational interactive developer

INTTELMEX
2011–2012

The biggest telephone company in Mexico is TELMEX, and its department of internal training is called INTTELMEX. My functions in this company included creating interactive tools designed to train the operative workforce. Those tools were developed on different platforms, depending on the needs of the company. We used ActionScript, HTML/CSS/JavaScript, and, in some cases, Flash on HTML.

Linkedin: https://www.linkedin.com/school/inttelmex-it/
TELMEX: https://telmex.com/
INTTELMEX: http://inttelmex.edu.mx/Saba/Web/aprende

Skills and education

Skills

The following lists show the skills I have acquired during the past fifteen years, either while working professionally or as part of training courses. Although I know other programming languages, these lists only include the ones I actually work with.

Server skills

Debian based (9 years)
CentOS based (6)
openSUSE based (2)

Cloud Devops

Docker (3 years)
Kubernetes (1)

Web Dev

HTML/CSS (15 years)
JS (12)
PHP (8)
jQuery (6)
ReactjS (2)
Django (1)
Streamlit (1)
Dash (1)

App Dev

C++ (4 years)
Python (2)

Certifications

Data Science for All: Graduated with Honors

Correlational One and SoftBank
Credential: https://www.credential.net/5110841a-93fb-4e30-a14f-ecbb31e660e1

Python for Everyone Specialization

University of Michigan on Coursera
Credential:
https://www.coursera.org/account/accomplishments/specialization/certificate/EKV95L5HFB3P

Elements of AI

University of Helsinki
Credential: https://certificates.mooc.fi/validate/eyifa84qgjf

IBM Data Science Professional Certificate

IBM on Coursera
Credentials:
https://coursera.org/share/5f207bbc74df57b4f49d7e8bc778631e

Formal Education

High School | Preparatoria La Salle 1997–2000

Bachelor of Arts in Communications | Universidad Panamericana 2006–2010*

Due to personal reasons, I did not graduate.