# FRANCISCO RUELAS

Software Engineer

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## SUMMARY

A highly skilled and detail-oriented software engineering leader focused on leveraging advanced computer skills to empower businesses to achieve their goals. Extensive experience developing software using a wide variety of programming languages on Windows and Linux platforms. Exceptional communication skills, frequently serving as a liaison between customers and software developers located in different regions around the world in a large, enterprise manufacturing environment with a global presence. Out-of-the-box thinker with the ability to consistently transform ideas into tangible products.

**Software Engineering | Project Management | Product Development | Team Leadership | Solution Architecture**
**Scalability | Data Analysis | Testing | Strategic Planning | Reporting | Database Design**

## TECHNICAL SKILLS

**Languages:** Visual Basic, C++, C#, Object Pascal, PHP 7, Python 2/3, Bash, Java
**SW Development Frameworks:** .Net, Laravel, Flask, jQuery, Node Js, Spring Boot, OpenCV
**IDEs:** MS VS Code, MS Visual Studio, InteliJ IDEA, dBeaver, pgAdmin, SoapUI, Postman
**Databases:** MS SQL Server, MySQL, MariaDB, Informix 9, Oracle 9i, PostgreSQL, LiquidBase
**CICD Tools:** Ansible (IaC), BitBucket (Source Control), TeamCity (App. Deployment), Sonatype Nexus (repo management)
**Containers and Orchestration:** Docker, Kubernetes (MicroK8s), Kafka (msg bus between micro-services)
**Analytics Engine:** Elasticsearch/Kibana (part of the ELK Stack)
**Virtualization Technologies:** VMware, VirtualBox, LXD
**Operating Systems:** Windows and Linux Platform.

## EXPERIENCE

JABIL, **Austin, TX**
**Test Engineer IV, StackTest,** 2019-2023

Led team in exploration of new technologies with goal of making solution architecture more resilient. Supported infrastructure of data pipeline that collected data from heterogeneous sources (ETL) to present it in dashboards using Elasticsearch and Kibana.

- Onboarded new customers on test framework not only by supporting tool but also by reinforcing best practices on systems testing while improving test framework for scalability, performance, usability and maintainability.
- Introduced CICD pipeline using IaC to setup the application infrastructure to the automated application update deployment targeting specific sites.
- Gained hands-on experience in Windows, Linux, VSCode, MariaDB, PostgreSQL, Ansible, Bash, Python, Java, Elasticsearch/Kibana, Docker, MicroK8s, TeamCity, Nexus, Kafka, VMware, LXD, LiquidBase, dBeaver, and Nginx.

FLEX, **Austin, TX**
**Systems Software Engineer**, 2016-2019

Oversaw interfaces between flexBench (test framework) and FlexFlow (MES) and between flexBench and hardware that enabled features, such as LED visual auto test and device auto-discovery (based on SNTP). Defined and developed back-end features that enabled flexBench software (framework to test hardware solutions) to deploy test plans against targeted UUTs and had UUTs pass back test results using few Kb of bandwidth, enabling scalability.

- Developed other solutions based on computer vision like visual auto inspections, label scanning using OpenCV, Tesseract, Dmtx, and ZBar.
- Developed loader for Electronic Shelf Label (ESL).

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FLEX MANUFACTURING, **Austin, TX**
**Senior System Analyst, Business Systems Analyst**, 2007-2016

Analyzed business processes, functions, and procedures to determine the most effective way to use flex systems (ERP and MES) to meet organizational needs and underlying process using BTS, BTO or CTO. Prepared test plans and coordinated and performed systems testing (QA) to deploy new system and features. Coordinated implementation of software systems, including conversion of data between systems, and collaborated with application support personnel to resolve system problems (L3 support). Documented system specifications and noted any changes.

- Established systems specifications and objectives, based on business requirements and cost effectiveness, and providing recommendations to management personnel.
- Involved in systems development and design, including software programming, DB design, and reports.
- Served as liaison between software development staff, management, and system end-users to determine requirements and obtain sign-off.
- Provided training and technical support to system end-users.
- Involved in all phases of software development life cycle for MES solutions.
- Provided MES support and troubleshooting.
- Communicated and gathered requirements at high level with customers, PMs, and senior management. Translated requirements to technical specification for development.
- Oversaw project procurement.
- Reported project status to customers, PMs, and senior management.
- Gained hands-on experience in Windows, VB6, Visual Basic .NET, MS SQL, MS Office, Loftware, Baan (ERP), FlexFlow (MES) and custom Interfaces.

## ADDITIONAL EXPERIENCE

FLEXTRONICS MANUFACTURING, **Zapopan, JAL, MX**, **Enterprise-wide Programmer Analyst**, 2004-2007. Maintained MES developed in VB .NET and other various systems developed in different development platforms. Supported and developed customizations in legacy MES (Datasweep) and various satellite systems that gather data from shop floor systems or ERP (BaaN) and consolidate it to generate reports, mainly through web pages. Automated different kinds of manual processes or semi-automated processes (parsers) and to create interfaces to exchange data between shop floor system and the ERP or external systems on customer side (EDI). Involved in analysis and development tasks.

ITESO UNIVERSITY, Mexico, **Software Engineer**, 1998-2004. Maintained various legacy systems developed with Clipper. Served as project leader of multiple development projects at university, including Admission System, Enrollment System, and Academic Performance Evaluation System, which were developed with Delphi (Object Pascal) and Oracle for Windows platform. Oversaw overall change control, scope change control, and schedule control for multiple projects. Involved in system design, analysis, and implementation. Gained hands-on experience in Windows 95, NT 3.51 & 4.0, Delphi 5, Informix 9, Oracle 8i, System Architect, Borland C ver. 3.1, Ms Visual Source Safe, and Ms Project 2000.

TELEINFORMATICA AVANZADA DE MEXICO, QUEST SYSTEMS DE MEXICO, Mexico, **Software Development Project Manager**, 1996-1998. Managed all software and firmware developments. Evaluated team performance. Led project to document all software and firmware in company and led project to reduce time to market products. Development of work method as well as project management policies. Involved in system design and implementation of every project in company. Involved in every proposal to clients, giving support to sales in technical issues. Provided Q/A and technical support for software and firmware products developed by the company.

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## EDUCATION

ITESO UNIVERSITY, Mexico
**Master of Applied Computer Science, Specialized in I.S. Management**

ITESO UNIVERSITY, Mexico
**BS, Computer Systems Engineering**

## PROFESSIONAL DEVELOPMENT

Laravel, PHP framework
Linux Server Virtualization, PluralSight, 2018
Accelerated Introduction to C++, PluralSight, 2016
Python Fundamentals, Plural Sight, 2016
Java Script
HTML5
Programming in Delphi 5.0
BaaN 4 Development.