



Angel David Sasso Villa

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Gender: Male **Date of birth:** 15/12/1998 **Nationality:** Mexican

ABOUT ME

I'm a mechatronics engineer with experience on production, quality, engineering and software development teams. I'm interested in design, automation, control and architecture of mechatronic systems. Also have a special interest in IT and in finance management. I'm looking for keep growing on mechatronic systems design and project management. I count with a problem solving, customer service, teamwork, cost-benefit analysis, and proactive abilities. I look for contribute into a company that allows me economic stability and work-life balance. I'm self-taught person.

WORK EXPERIENCE

[06/11/2023 – Current]

Test Development Engineer

Lear Corporation

City: Apodaca, N.L.

Country: Mexico

[20/05/2021 – 31/10/2023]

Test Development Engineer

TASK (Outsourcing Acuity Brands)

City: Guadalupe, N.L.

Country: Mexico

As part of the test development engineering team, I developed myself as a project leader with many activities as working with test equipment that are part from the factory production process to test electrical devices. I started with upgrading existing test equipment and developing software to interact with the device under test to achieve the test specification process requirements, all of this working with LabVIEW and TestStand.

In addition, as part of the industry 4.0 team, I am in charge of doing research, design and develop a computer vision software, using image processing and machine learning techniques, as object detection to ensure quality control on production lines.

Currently I work at the most with Python to create user interfaces and entire applications to control hardware using Serial, Ethernet-IP, Modbus TCP and OPC-UA protocols.

I am in contact with product design team who are native and non-native English speakers to clarify situations and follow on with the project's activities.

Responsibilities:

- Understanding the client requirements.

- Testing some scenarios with product and comparing results with the expected on the documents.
 - Informing and documentation from bugs, description, steps, and screen shots of how to reply to the bug, reporting to the Project Manager and Product Design Leader about the status of the test activities daily.
 - Keeping track from bugs and situations that could appear and define actions to these issues as well.
 - Coordinate the build from test equipment and validate the functionality of them based on the test plan.
 - Troubleshooting and giving electrical and software support from various test equipment on the field, in a remote way and at field.
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- Manage projects repositories using version control.
 - Define software applications architecture.
 - Develop software to be used on test equipment.
 - Making code review from unknown testers and deal with third party software and hardware to integrate this on the test equipment.
 - Make decisions based on data analysis.
 - Research on Python libraries that could help on our applications.
 - Make a solid code structure to others to collaborate on software development.

[14/02/2021 – 20/05/2021]

Manufacturing Engineer Intern

Carrier México

City: Santa Catarina, N.L.

Country: Mexico

This project was one of my favorites, I was introduced with Ignition App software by Inductive Automation. On this project I had to learn in an intensive way how ignition works and keep developing the solution that was required. This platform works with java and python, because of that my main activity was studying the python libraries from this platform and use them to control the behavior of this software. This was part of a remote internship due to the pandemic situation.

Responsibilities:

- Do research on the inductive automations webpage and online resources to get involved with this platform.
- Test tools to determine expected response and define workflow from the software process.
- Develop methods to interact with available objects as tables, controls, and indicators on the dashboard.
- Find the way of how get done the operational requirements, analyze its implementation and validate it.

[31/12/2019 – 22/12/2020]

Coordinator, Supervisor and Assistant.

Industrial RAG S.A. de C.V <http://industrialrag.com.mx/>

Address: Ignacio Allende 219, Ignacio Allende 219, 66400, San Nicolás de los Garza, Mexico

Name of unit or department: Quality

Business or sector: Manufacturing

My activities distribute on different departments, I list them below.

Engineer Department Assistant

- Assist the design of projects.
- Creation of CAD models for diferent projects.
- Doing research when needed.
- Cost-Benefit analysis for the proyect and complements.

Production Department Assistant

- Strategic planning of projects development.
- Read of 2D machined pieces and pipeline isometric drawings.

- Checking for pieces material and specifications.
- Reviewing components list for an assembly or a project.
- Reviewing for material and tools on stock.
- Require material when necessary.
- Create productions workplan.
- Distributing work to operators.
- Monitoring daywork.

Quality Supervisor and Coordinator

- Coordinate quality department activities.
- Monitor machined pieces.
- Interpretation of drawings.
- Analyze details and specifications on drawings.
- Accepting or rejecting pieces depending on the drawings specifications, and functionality.
- Deal with the client directly.
- Implement "5 Whys" problem solving philosophy in order to know the root-cause from errors.

[07/2019 – Current]

Administrative Assistant

Facultad de Ingeniería Mecánica y Eléctrica de la Universidad Autónoma de Nuevo León

City: San Nicolás de los Garza

Country: Mexico

Support on activities as reviewing of documents, assist on private tutoring, answering questions of the students and support mostly to logistics department on school events.

[11/2016 – 11/2019]

Music Teacher

Instituto Nouveau Campus Anáhuac

City: Escobedo

Country: Mexico

Music education on different instruments as drums, guitar and piano.

EDUCATION AND TRAINING

[08/05/2023 – Current]

Master of Business Administration with a focus in Finance

Facultad de Ingeniería, Mecánica y Eléctrica de la Universidad Autónoma de Nuevo León. <http://posgrado.uanl.mx/maestria-en-administracion-de-organizaciones-con-orientacion-en/>

City: San Nicolás de los Garza

Country: Mexico

[05/2016 – 06/2021]

Bachelors Degree in Mechatronics Engineer

Facultad de Ingeniería, Mecánica y Eléctrica de la Universidad Autónoma de Nuevo León. <https://www.fime.uanl.mx/>

City: San Nicolás de los Garza

Country: Mexico

[11/2018 – 12/2021]

German Language

Centro de Idiomas de la Facultad de Filosofía y Letras de la Universidad Autónoma de Nuevo León. <http://filosofia.uanl.mx/index.php/centro-de-idiomas/>

LANGUAGE SKILLS

Mother tongue(s): Spanish

Other language(s):

English

LISTENING B2 READING B2 WRITING B2

SPOKEN PRODUCTION B1 SPOKEN INTERACTION B1

German

LISTENING B1 READING B1 WRITING B1

SPOKEN PRODUCTION B1 SPOKEN INTERACTION B1

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

DIGITAL SKILLS

Microsoft office(WordExcel Powerpoint Outlook) | C, C++ Language | NI LABVIEW | Proteus and Multisim: Tools for Circuit designing | MATLAB&Simulink | FluidSim, FESTO | SolidWorks (Intermediate) | Arduino Programming and its parts | Raspberry Pi | PowerBi | Python (proficient) | Proficient in Git | Azure DevOps | Minitab(Basics)

HONOURS AND AWARDS

[03/02/2021] **SolidWorks - Mechanical Design Professional Awarding institution:** Dassault Systems
Certification for Mechanical Design at the level of Professional using SolidWorks.
ID: C-LFGQY8MA2W

[10/01/2021] **Python 3 Udemmy Course Awarding institution:** Udemmy

ID: UC-27cfb29a-8368-4b99-aac7-3ceaaecf34cd

Viewed Topics:

- Data Types
- Classes and Objects
- Methods
- Modules and Packages
- File Managing
- Graphic Interfaces using Tkinter
- Databases using SQLite
- Documentation and Testing
- Distribution

Link: <https://www.udemy.com/certificate/UC-27cfb29a-8368-4b99-aac7-3ceaaecf34cd/>

[23/12/2020] **AWS Academy Graduated - AWS Academy Cloud Foundations Awarding institution:** Amazon Web Services Training and Certification

Earners of this badge have taken the AWS Academy Cloud Foundations course.

Link: https://www.youracclaim.com/badges/b433905c-c5a9-40aa-a8f4-7ab39d4663ad/linked_in

[21/12/2020] **SolidWorks - Mechanical Design Associate Awarding institution:** Dassault Systemes

Certification for Mechanical Design at the level of Associate using SolidWorks.

ID: C-9RANUWKE7Z

[08/2020] **Certified LabVIEW Developer - CLD Awarding institution:** National Instruments - NI

Self-taught learning with online resources that NI have.

The Certified LabVIEW Developer (CLD) exam verifies the user's ability to design and develop functional programs while minimizing development time and ensuring maintainability through proper documentation and style. Certified Developers can provide technical leadership to less experienced engineers, helping ensure their team is following best practices and becoming more competent and efficient LabVIEW programmers.

Link: https://www.youracclaim.com/badges/883929be-d873-48cf-a919-0f7f2f96a2cc?source=linked_in_profile

[07/2020] **Seminario Neumático Online Awarding institution:** FESTO México

Neumatic components and systems.

[12/2019] **Certified LabVIEW Associate Developer - CLAD Awarding institution:** National Instruments - NI

The Certified LabVIEW Associate Developer (CLAD) Certification indicates a broad working knowledge of the LabVIEW environment, a basic understanding of coding and documentation best practices, and the ability to read and interpret existing code. NI offers the Certified LabVIEW Associate Developer (CLAD) exam using either LabVIEW or LabVIEW NXG.

Link: <https://www.youracclaim.com/badges/857cb317-4121-405d-8f0e-f12e63311698>

[08/2019] **Student Ambassador's LabVIEW Program. Awarding institution:** Facultad de Ingeniería Mecánica y Eléctrica.

Process to get the LabVIEW Associate Developer certification.

[04/2019] **LabVIEW Effective Programming Awarding institution:** Personalized Course

Basic, intermediate and advanced course taught by M.C. Rodolfo Rubén Treviño Martínez.

[03/04/2022] **NI - Project Management Awarding institution:** National Instruments

[21/03/2022] **NI - Continous Integration Awarding institution:** National Instruments

[14/08/2021] **Curso Profesional de Git y GitHub Awarding institution:** Platzi

[02/09/2021] **OOP and Algorithms in Python Awarding institution:** Platzi
