



Angel David Sasso Villa

Date of birth: 16/12/1998 | **Nationality:** Mexican | **Gender:** Male | **Phone**

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Address: Santa Catarina, Mexico (Home)

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 an interest in IT. I'm looking for develop myself profesionally on design of mechatronic systems. I count with a problem solving, customer service, team work, cost-benefit analysis, and proactive habilities. I look for a company that allows me economic stability and to growth professionally and ethicly in order to contribute to the society. I'm self-taught person.

WORK EXPERIENCE

20/05/2021 – CURRENT Guadalupe, N.L., Mexico

TEST DEVELOPMENT ENGINEER TASK (OUTSOURCING ACUITY BRANDS)

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.
- 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 Santa Catarina, N.L., Mexico

MANUFACTURING ENGINEER INTERN CARRIER MÉXICO

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 San Nicolás de los Garza, Mexico

COORDINATOR, SUPERVISOR AND ASSISTANT. INDUSTRIAL RAG S.A. DE C.V

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 proyects development.
- Read of 2D machined pieces and pipeline isometric drawings.
- Checking for pieces material and specifications.
- Reviewing components list for an assembly or a proyect.
- Reviewing for material and tools on stock.
- Require material when neccesary.
- Create productions workplan.
- Distributing wotk 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 phylosophie in order to know the root-cause from errors.

Business or Sector Manufacturing | **Department** Quality |

Address Ignacio Allende 219, Ignacio Allende 219, 66400, San Nicolas de los Garza, Mexico |

Website <http://industrialrag.com.mx/>

07/2019 – CURRENT San Nicolás de los Garza, Mexico

ADMINISTRATIVE ASSISTANT FACULTAD DE INGENIERÍA MECÁNICA Y ELÉCTRICA DE LA UNIVERSIDAD AUTÓNOMA DE NUEVO LEÓN

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.

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

● EDUCATION AND TRAINING

06/2016 – CURRENT San Nicolás de los Garza, Mexico

DEGREE IN MECHATRONICS ENGINEER Facultad de Ingeniería, Mecánica y Eléctrica de la Universidad Autónoma de Nuevo León.

Address San Nicolás de los Garza, Mexico | **Website** <https://www.fime.uanl.mx/>

12/2018 – CURRENT

GERMAN LANGUAGE Centro de Idiomas de la Facultad de Filosofía y Letras de la Universidad Autónoma de Nuevo León.

Website <http://filosofia.uanl.mx/index.php/centro-de-idiomas/>

● LANGUAGE SKILLS

Mother tongue(s): **SPANISH**

Other language(s):

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
ENGLISH	B2	B2	B1	B1	B2
GERMAN	B1	B1	B1	B1	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 | Basic of Python | Proteus and Multisim: Tools for Circuit designing | MATLAB&Simulink | FluidSim, FESTO | SolidWorks (Intermediate) | Arduino Programming and its parts | Raspberry Pi

● ADDITIONAL INFORMATION

HONOURS AND AWARDS

03/02/2021

SolidWorks - Mechanical Design Professional – Dassault Systems Certification for Mechanical Design at the level of Professional using SolidWorks.

ID: C-LFGQY8MA2W

10/01/2021

Python 3 Udemmy Course – 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 – 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 – Dassault Systemes Certification for Mechanical Design at the level of Associate using SolidWorks.

ID: C-9RANUWKE7Z

08/2020

Certified LabVIEW Developer - CLD – 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 – FESTO México Pneumatic components and systems.

12/2019

Certified LabVIEW Associate Developer - CLAD – 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. – Facultad de Ingeniería Mecánica y Eléctrica. Process to get the LabVIEW Associate Developer certification.

04/2019

LabVIEW Effective Programming – Personalized Course Basic, intermediate and advanced course taught by M.C. Rodolfo Rubén Treviño Martínez.

03/04/2022

NI - Project Management – National Instruments

21/03/2022

NI - Continuous Integration – National Instruments

14/08/2021

Curso Profesional de Git y GitHub – Platzi

02/09/2021

OOP and Algorithms in Python – Platzi