



About me

I am an engineer with extensive experience in the development of digital solutions. With a strong background in software development and architecture design, I have led digital projects across Europe and America for **Saint-Gobain Adfors**.

I facilitate the convergence of emerging and existing IT and OT technologies for data control and acquisition in production processes. I also support factories in preparing for AI and Machine Learning projects.

My expertise covers Industry 4.0, IoT, cybersecurity compliance, and the development of innovative solutions for manufacturing environments.

Experience

Digital Manufacturing Leader

OCT 22 - TODAY | PARIS, FRANCE

Design of state of art Adfors in +15 factories, by placing a standard digital manufacturing solution using **Ignition**.

Onboarding development teams to Ignition and be at their side during the technology transition.

Digital Projects Coordinator

NOV 19 - 2022 | TLAXCALA, MEXICO

Responsible to coordinate and develop local MES based on C# to Mexico, Spain, Poland and Austria.

Software Developer Junior

NOV 17 - 2019 | TLAXCALA, MEXICO

Development of MES for 1 factory in Mexico, develop connection between PLC and databases.



Career and history

Throughout my career at Saint Gobain ADFORS, I have progressively advanced through various roles, showcasing my technical expertise and commitment to digital transformation in manufacturing.

As a **Software Developer Jr**, I laid the foundation for my technical skills by focusing on mobile development and .NET programming for Manufacturing Execution Systems (MES). I successfully designed and implemented a standard data collection tool for OT devices, ensuring seamless communication through OPC-UA, which enhanced operational resilience.

In my role as **Digital Projects Coordinator**, I expanded my scope by evaluating and applying emerging technologies to optimize production processes. I managed software development projects across Europe and Mexico, coordinated multidisciplinary teams, and integrated Azure with ERP and MES systems. My involvement in a Data Science project allowed me to leverage data analytics to drive continuous improvement initiatives.

Currently, as a **Digital Manufacturing Leader**, I am responsible for the digitalization and design of a standard Digital Manufacturing solution for +15 factories across Europe and America. I lead the transition of technical teams to Ignition, defining coding, data, and user experience guidelines. My focus on fostering a digital culture and aligning initiatives with organizational goals underscores my evolution as a technology leader committed to driving efficiency and innovation in manufacturing operations.

Favorite projects

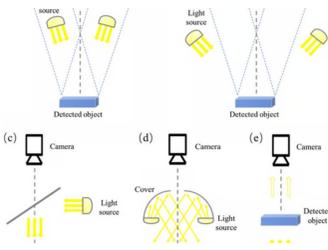
The projects has been obfuscated so no company data is displayed, images are AI generated or from [Unsplash](#).



WMS

A complete and flexible warehouse management system easy to use.

[Learn more](#)



"All in one" computing vision solution

POC of a Trash collector in School management system and surveillance.

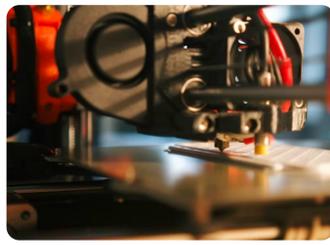
[Learn more](#)

Other projects



OEE Module

Plug and play OEE module for manufacturing operations.



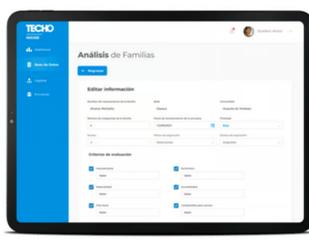
3D Printing

Bring ideas into reality by fast and cost effective prototyping.



Security Check

A mobile application to perform security audits in the workshop.



TECHO House

Member of TECHO House during a Hackathon in PaloIT to solve data issues for a non profit organization.

Skills

Quick glance at my hard and soft skills.



Languages

- Spanish
Native language
- English
Professional - Fluent
- French
Basic - Learning



Soft skills

- Team management (local and international)
- Leadership
- Autonomy
- Creative mindset



Hard Skills

- Ignition software
- Scrum & Agile methodologies
- Azure Cloud Services
- IT & OT architecture design
- Industry 4.0 & IoT expertise
- Professional development in .NET, C#, Python & Xamarin
- SIEMENS suite
- OPC UA
- MQTT
- MMSQL & MySQL databases

Education

Engineering & Data.



Master's student in Data Science & Business Intelligence

UPAEP, Puebla, Mexico | 2021 - On hold

Mechatronics Engineer

UPTX, Tlaxcala, Mexico | 2014 - 2017

Coping with the latest technology

I actively cope with the latest technologies, ensuring that I remain at the forefront of industry advancements. I believe in the power of collaboration and share my expertise with the community through mentoring, participating in industry events, and contributing to discussions on emerging technologies.