Ángel Andrés Hernández Serna

Industrial Engineering | Continuous Improvement | Lean Manufacturing

📧 andres.hdzserna@gmail.com | 📱 +52 449 142 5727 |

🌐 www.linkedin.com/in/angel-andres-hernandez-serna-a6b91a273 | 🌐

📍 Aguascalientes, Ags, Mexico

24 years old

Professional Summary

Industrial Engineer with experience in process optimization, continiuos improvement, and automation of calculation records using tools such as Visual Basic, Advanced Excel and VBA. I have led Kaizen projects to enhance production line efficiency and reduce operational costs. My background includes participation in innovation contests, development of databases for study traceability, and international experience in France and the USA, applying Lean Manufacturing and Six Sigma methodologies. Recognized for strong analytical skills, leadership in multidisciplinary teams, and a results-oriented approach.

Work Experience

«JATCO MEXICO» Staff in the area of Industrial Engineering, Ags. Mexico. 12/2022 – 09-2025 (Aguascalientes, Mexico)
- Performed **Design Standard Time (DST)** calculations to control and optimize production processes.
- Managed and monitored **Direct Labor Cost (DLC)** to ensure cost efficiency.
- Controlled and analyzed **Overall Equipment Efficiency (OEE)** to identify improvement opportunities.
- Conducted **time studies, line confirmations**, and **Line Actual Time (LAT)** calculations to support accurate production metrics.
- Oversaw **Start of Production (SOP)** for new models and ensured smooth integration into existing operations.
- Monitored current production models, validating process stability and performance.
- Coordinated the **exchange and adaptation of Kaizen practices** with teams in **Japan, China, and Thailand**, ensuring implementation and economic impact.
- Followed up on **Kaizen initiatives** to secure their effectiveness and alignment with global standards.
- Identified failures in production lines and implemented corrective actions through **continuous improvement (Lean/Kaizen)** methodologies.

«JATCO MEXICO» Lab Fellow. Calibrators. Aguascalientes, MEX 08/2022-12/2022
In charge of the implementation of the Gage Control Software in the warehouse area for its control of calibrators and sheltered equipment.

«SernasTrucking» Project Developer Area Mechanical Workshop Tx. USA 15/09/2021 - 20/12/2021 (San Marcos, TEXAS, USA) (Virtual)
In charge of developing inventory control projects, HOE, Flow Diagrams and translator of workbooks.

«Univesité de Lille» stay in France. Lille, France 10/01/2021 - 30/06/2021
A project was carried out for the university making a mechanical load simulator for simulation of business work.

«Constructora JOMAQ» Developer of the horometer registration program using automation in Excel 09/01/2020-31/07/2020
We worked on a project for the construction company jomaq in which it was responsible for maintaining a standard of continuous horometer recording in a simpler and faster way for the worker.

Achievements / Awards

✅ **Jatco Mexico (DX Project 2023) - 2nd Place**
Program to calculate the necessity of Head Count automate.

✅ **Jatco Mexico (DX Project 2024) - 3rd Place**
Data Base in Visual Basic to storage the studies of occupation of the Head Count.

✅ **Jatco Mexico (QC-Story 2025) - 1ft Place**
Segregation of Head Count in Casting, Heat Treatments, Gears in order to achieve the cost for each model.

✅ **Jatco Mexico (QC-Story 2025) - 3rd Place**
Reduction of Head Count in Casting area in order to improve the Efficiency of the Head Count

✅ **Jatco Mexico (QC-Story 2025) - 4th Place**
Reduction of Head Count in Assembly area in order to improve the Efficiency of the Head Count
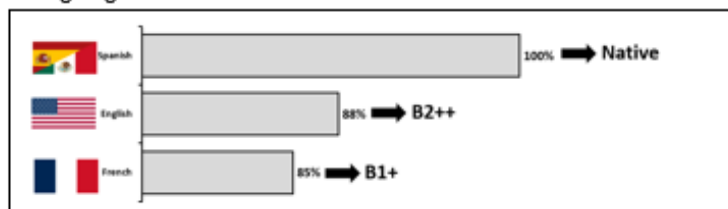
Certification & Courses ➤ Full Stack Dev. (Python)

✓ **Completed:**
- HTML5, CSS3 – Web fundamentals
- JavaScript – DOM manipulation, ES6, OOP
- Git & GitHub – Version control and collaboration
- Responsive Web Design – Flexbox & media queries
- Frontend basics – UI/UX essentials

🏅 **In Progress:**
- Python for Web Development
- Django Framework – Backend development
- REST API integration
- Database Management – SQL and NoSQL
- Deployment (Netlify, Firebase, Docker basics)
- Advanced JavaScript (React or similar, si está en el programa)

Languages

Language		%	Level
🇪🇸 Spanish	▰▰▰▰▰	100% ➡	Native
🇺🇸 English	▰▰▰▰	88% ➡	B2++
🇫🇷 French	▰▰▰▰	85% ➡	B1+

Education

EBAC (Escuela Britanica de Artes creativas y tecnologicas)
31-12-2024 - Today (Full Stack Developer Python)
📌 Creation of an app of tracking for a Logistic Enterprise
University of Technology of Aguascalientes
31-08-2021 - 31-04-2023 (Production Systems Engineering)
📌 Developed and implemented continuous improvement projects with a focus on industrial process optimization.
📌 Applied Lean Manufacturing methodologies in collaboration with industry partners.
University of Technology of Lille-France
14-09-2020 - 23-07-2021
📌 Conducted a project developing a mechanical load simulator for business and industrial applications.
📌 Gained expertise in measurement, instrumentation, and industrial control systems.
University of Technology of Aguascalientes
2018 - 2020 TSU (Senior University Technician)
📌 *Awarded the MEXPROTEC scholarship for a one-year study abroad program in France.*
📌 *Participant in state Mathematics competitions.*
📌 *Completed projects on continuous improvement and automation in collaboration with industry.*

Certification & Courses ➤ Industrial Engineering

✓ Visual Basic Application	✓ Core Tools
✓ Office Package	✓ 7 Stadistic Tools
✓ Advanced Excel	✓ Fluid Simp (FESTO)
✓ Lean Six Sigma Tools	✓ QC Story
✓ 8D's	✓ Kaizen Improvement

Relevant Projects ➤ Industrial Engineering

✅ **Labor Cost Optimization (Assembly, Machining, Heat Treatment, and Casting)**
Implemented manpower segregation strategies and process improvements, achieving significant reductions in **Direct Labor Cost (DLC)** while sustaining production efficiency.

✅ **OEE Enhancement Program**
Designed and executed initiatives to increase **Overall Equipment Efficiency (OEE)**, reducing downtime and improving equipment utilization.

✅ **Custom VBA/Excel Applications for Process Control**
Developed various automation tools (registration systems, status identifiers, database trackers) for **Quality, Engineering, and Maintenance** departments, enhancing data accuracy and reducing process time.

Skills

Soft Skills
- ✓ Team Management
- ✓ Conflict Resolution
- ✓ Leadership
- ✓ Creativity
- ✓ Analytical Thinking
- ✓ Effective Communication
- ✓ Adaptability

Hard Skills
- ✓ Lean Manufacturing
- ✓ Kaizen & Continuous Improvement
- ✓ OEE Analysis
- ✓ Time Study & Line Balancing
- ✓ Direct Labor Cost Control
- ✓ Excel VBA & Macros
- ✓ Visual Basic for Applications

Relevant Projects ➤ Full Stack Dev. (Python)

✅ **Logistics Tracking Web App (Full Stack Project)**
Designed an application to track logistics operations for a transportation enterprise, integrating real-time status updates and data visualization.

✅ **Personal Portfolio Website**
Developing a personal web page to showcase professional background, skills, and projects for recruiters and collaborators.

✅ **Licores Triana E-commerce Website**
Building an online store for the family business, enabling product catalog display and shopping cart functionality.

✅ **Truck Horometer & Status Tracking System**
Created an application to register truck usage, track fuel consumption, and monitor operational status, improving cost control and fleet management.

💡 *"Driving efficiency and continuous improvement for a smarter and more productive future."*