



IVANA NAVARRETE- SANTELIZ

SOFTWARE ENGINEER |
INDUSTRIAL AI & ROBOTICS
SPECIALIST

PERSONAL INFORMATION

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LANGUAGES

English: Native
Spanish: Native
German: Very good knowledge (C1)
Arabic, Italian and Portuguese: Basic knowledge

PROFESSIONAL SUMMARY

My journey from Mexico through the United States to Germany has shown me that technology is a universal language that transcends borders and cultures. This insight strongly shaped my academic path, leading me to study mechatronics and to focus my creative energy on the intersection of hardware and code.

I thrive on the challenge of transforming complex physical problems into intelligent software solutions. Driven by curiosity and a strong sense of engagement, I am motivated to continuously expand my technical skills and apply my international perspective to solving demanding problems in industrial AI, simulation, and data analysis.

WORK EXPERIENCE

STUDENT TRAINEE | AI & ROBOTICS SIMULATION

Tech-Auto Ltd | Remote | 09/2025-01/2026

- Developed a **Python**-based simulation environment (SimPy) to validate predictive maintenance strategies for autonomous robots.
- Designed software models to generate synthetic data and test decision-making logic using **Pandas** and **NumPy**.
- Visualized complex telematics data to analyze energy efficiency and system reliability.
- Tech Stack: Python, SimPy, Pandas, NumPy, VS Code.

INTERN | WEB & CMS MANAGEMENT

Tech-Auto Ltd | Remote | 07/2025 - 09/2025

- Relunched the corporate website: Migrated from static HTML to a dynamic **WordPress** CMS to integrate e-commerce functionalities.
- Performance Engineering: Increased **Google Lighthouse** Score from 67 to 89 by optimizing image resources and reducing plugin dependencies.
- Database & Deployment: Managed **MySQL** databases via cPanel, ensuring data integrity throughout the migration process.
- Frontend Optimization: Implemented responsive design elements using **HTML** and custom CSS to enhance the mobile user experience (UX).
- Tech Stack: WordPress CMS, MySQL, HTML5, CSS3, Google Lighthouse.

STUDENT TRAINEE & INTERN

Stabilus GmbH | SEPG Equipment & Process Division
Koblenz, DE | 10/2021-06/2022

- Industrial IoT: Developed standalone **C#** conversion tools to automate data exchange between **LabVIEW** production units and SQL databases.
- Data Analytics: Designed and implemented complex **Power BI** dashboards for quality reporting, significantly reducing manual data processing time.
- Data Analysis & Optimization: Identified key influencing factors in machine data and visualized change indicators to support continuous process monitoring.
- Quality Management: Prepared outlier datasets for in-depth analysis in **MATLAB** and optimized existing UI parameters for manufacturing quality control.
- Tech Stack: C#, Microsoft Power BI (DAX), LabVIEW, MATLAB, SAP.

EDUCATION

BACHELOR OF ENGINEERING – MECHATRONICS

Koblenz, DE | 09/2019 – expected 02/2026

Hochschule Koblenz

Bachelor's Thesis: From Data to Decisions - Optimizing Robotic Fleets with Telematics and Artificial Intelligence

Project Paper: ChatGPT in Software Development - A Study of AI-Driven Methodologies

FESTSTELLUNGSPRÜFUNG

Mainz, DE | 08/2018 - 06/2019

Internationales Studien- und Sprachenkolleg (ISSK) der Johannes-Gutenberg-Universität Mainz

HIGH SCHOOL

Columbia, SC, USA | 08/2015 - 06/2016

Westwood High School

Abschluss mit Auszeichnung

Chetumal, Q.Roo, MX | 08/2013 - 06/2015

Instituto Cumbres Chetumal

SKILLS

Technical Skills:

- **Software & Data Science:**
 - Python: Pandas, NumPy, SimPy (Simulation), Matplotlib.
 - Core: Java, C/C++, C#, Kotlin
 - Web & Datenbanken: SQL, HTML/CSS, WordPress CMS.
- **Engineering & Simulation:**
 - MATLAB, LabVIEW, CODESYS, Siemens Step7.
- **Tools & Workflows:**
 - DevOps & PM: Git & GitHub, Jira/Asana, VS Code.
 - Data & Design: Microsoft Power BI (DAX), Looker Studio, Figma (UI/Prototyping), SAP.
 - Remote Collaboration: Slack, Miro, Microsoft Teams.

Personal Strengths:

- **Analytical & Structured:** I enjoy breaking down complex problems into clear, actionable solutions. I work in a highly organized manner (to-do lists, timelines) and efficiently drive goals through to completion.
- **Initiative & Self-Learning:** I don't wait for instructions but take ownership and responsibility (leadership mindset). I independently acquire new technologies through strong self-motivation and a high willingness to learn.
- **Creativity & Agility:** I go beyond standard approaches to develop innovative ways to improve processes. I remain flexible and maintain oversight even when handling multiple tasks in parallel (multitasking).
- **Intercultural Competence:** Thanks to my international background, I confidently navigate across languages and cultures and integrate quickly into diverse teams.