IVANA NAVARRETE-SANTELIZ

MECHATRONICS ENGINEER

PERSONAL INFORMATION

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: inavarretesanteliz@gmail.com

: Koblenz, Germany

LANGUAGES

ENGLISH

SPANISH

GERMAN

ARABIC

ABOUT ME

My journey from Mexico to the US and now Germany has taught me that technology is a universal language. As a soon-to-be Mechatronics graduate, my creative energy is channeled into programming, especially building intuitive mobile apps with Java and Kotlin.

I thrive on the challenge of turning a complex problem into a clean, functional solution. I'm a naturally curious and hardworking individual, excited to apply my blend of technical skill and global perspective to solve complex challenges in the world of AI and beyond.

WORK EXPERIENCE

WORKING STUDENT

Tech-Auto Ltd | 09/2025-today

- Authoring a bachelor's thesis, "From Data to Decisions: Optimizing Robotic Fleets with Telematics and Artificial Intelligence."
- Investigating the application of AI and telematics to enhance route planning, energy efficiency, and system reliability in robotic fleets.
- Analyzing the implementation of autonomous systems within a smart city framework to improve urban logistics and infrastructure.

INTERN

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

- Executed a full-stack redesign of the corporate website, integrating e-commerce functionality to support expansion into the B2C market.
- Boosted the Google Lighthouse performance score from 67 to 89 by implementing custom code solutions, optimizing image assets, and minimizing plugin dependencies.
- Delivered a scalable, modern platform that successfully passed Google's Core Web Vitals assessment, establishing a robust digital foundation for future growth.

WORKING STUDENT

Stabilus Gmbh | SEPG Equipment & Process Division
02/2022-06/2022

- Enhanced a critical quality evaluation tool in Microsoft Power BI by redesigning the user interface and integrating new analytical functionalities.
- Extracted, cleaned, and processed quality assurance data from SAP, ensuring data integrity for engineering and reporting purposes.
- Prepared and structured complex datasets using Excel for advanced technical analysis and modeling in MATLAB.
- Contributed to the improvement of data analysis workflows, strengthening the connection between raw data collection and actionable business intelligence.

INTERN

Stabilus | SEPG Equipment & Process Division
10/2021 - 12/2021

- Analyzed measurement and parameter data from all global production machines to support the company's Digitalization 4.0 strategy.
- Engineered custom conversion programs in C#, creating a streamlined data pipeline for analytics and reporting.
- Integrated production floor systems by managing software interfaces with LabVIEW, enhancing data accessibility and integrity.
- Translated on-site manufacturing observations into actionable insights, directly supporting the digitalization of factory processes.

EDUCATION

MECHATRONICS BACHELOR

Koblenz, DE | 09/2019 - 12/2025 (Expected)

Hochschule Koblenz
Average grade through January 2025: 2.6 (German grading system)
Research Project (Studienarbeit): ChatGPT in Software Development - A Study of AI-Driven Methodologies | Grade: 1.3 (German grading system)

FESTSTELLUNGSPRÜFUNG

Mainz, DE | 08/2018 - 06/2019

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

HIGH SCHOOL DIPLOMA

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

Westwood High School
Graduated with honors

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

Instituto Cumbres Chetumal

KNOWLEDGE & SKILLS

Technical Skills:

- **Programming Languages:**
  - Java, Kotlin, Python, C/C++, C#
- **Development & Tools:**
  - Android Studio, MATLAB, LabVIEW, Git & GitHub.
- **Data & BI:**
  - Microsoft Power BI, Looker Studio, SAP
- **Automation & Engineering:**
  - CODESYS, Siemens Step7, BORIS, LISA
- **Project Management:**
  - Jira, Asana
- **Team Collaboration:**
  - Slack, Microsoft Teams, Zoom
- **Design & Prototyping:**
  - Figma

Soft Skills:

- Analytical and problem-solving skills
- Adaptable, versatile, and multitasking
- Self-taught and fast learner
- Ambitious and hardworking. Reliable and honest
- Creative, friendly, and sociable
- Leader and persistent. Independent and a good team member
- Mathematical and logical thinking
- Organized and responsible