



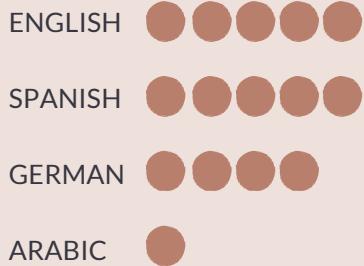
# IVANA NAVARRETE- SANTELIZ

MECHATRONICS ENGINEER

## PERSONAL INFORMATION

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 : inavarretesanteliz@gmail.com  
 : Koblenz, Germany

## LANGUAGES



## 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

Stabilius 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

Stabilius | 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