

RICARDO SIERRA ROA



www.linkedin.com/in/ricardo-sierra-roa/
+49 1522 2044690 | rickisierra919@gmail.com
Date of Birth: 19 September 2003
Place of Birth: Querétaro, Mexico

Currently studying Robotics and Digital Systems Engineering at Tecnológico de Monterrey (ITESM) with a 50% academic talent scholarship, and completing a semester abroad at Hochschule Esslingen, Germany. Passionate about AI, software development, and robotics, I aim to combine technology and creativity to solve complex problems. Currently working at PPG Industries as a Software Engineer Intern, gaining hands-on experience in real-world applications. I am now seeking to grow further by pursuing new professional opportunities in Germany within AI, robotics, and software engineering.

EXPERIENCE

Software Engineer Intern

PPG Industries | Queretaro, MX

2024 NOV. - Present

Currently working as a Full Stack Developer Intern, working on frontend and backend tasks using Angular, .NET, and PostgreSQL, primarily contributing to COMEX projects

Jr Developer

Cloud Keter | Queretaro, MX

2024 FEB. - 2024 SEP.

Worked as full-stack developer, creating modern and responsive user interfaces with React, Tailwind CSS, and TypeScript. I also implement APIs, integrate databases, and handle DevOps tasks like deployment automation and environment configuration, ensuring efficient software delivery

AI Puzzlebot

Manchester Robotics | QRO, MX

2025 MAR. – 2025 JUN.

Designed, developed, and programmed an adaptive control and YOLOv8 neural network based vision system to enable a Puzzlebot to operate as an autonomous mobile robot using ROS2, in collaboration with Tec de Monterrey and Manchester Robotics.

AES PROJECT

INTEL | GDL, MX

2024 MAR. – 2024 APR.

Developed an AES encryption and decryption system on FPGA for Intel in collaboration with Tec de Monterrey, managing version control and ensuring seamless project integration and functionality.

EDUCATION

Robotics and digital systems engineering

Institute of Technology and Higher Education of Monterrey

AUGUST 2022 - Present

- GPA: 98.14/100

CERTIFICATIONS

- HTML & CSS at Pirple (FEB 2021)
- Wordpress at addgital (FEB 2021)
- Facebook, WhatsApp and Instagram Focused on Sales at infosistemas.mx (AUG 2020)
- NVIDIA Fundamentals of Deep Learning - (MAY 2025)

SOFT SKILLS & LANGUAGES

Soft Skills

- Data Analysis
- Fast Learner
- Time Management
- Ability to Multitask
- Problem-Solving
- Microsoft Office
- Teamwork
- Leadership

Languages

- Spanish (Native)
- English (Higher-Intermediate) - TOEFL iBT B2 (AUG 2024)
- German (A2) - Goethe-Zertifikat A2 (JUL 2024)
- French (A2) - DELF A2 (APR 2019)

HARD SKILLS

Software

- Github
- Webstorm & Pycharm
- Matlab
- Embedded Linux
- ROS2

Coding Languages

- HTML & CSS
- React, Tailwind css & Typescript
- C# & .NET
- SQL
- Python
- C & C++
- VHDL

ENTREPRENEURSHIP

Lyra Tech

2024 NOV. – Present

- Personal Business
- Software Development

JUNGE FUTURUM - (Social)

2021 AUG. – 2022 JAN.

- Gave Math and English classes in low-income areas

EXTRA CURRICULAR ACTIVITIES

MUN - Plenus

2021 AUG. - 2022 MARCH

Administration department leader

Defin Space - Hackathon

2023 NOV.

National 2nd place

FIN 4 ALL - Hackathon

2024 NOV.

National 2nd place

Inc Mty - Pitch Competition

2025 MAY.

National 1st place