

# Adrián Sánchez García

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## Professional Summary

Automotive Embedded Software Engineer with 3+ years of experience designing, developing, and optimizing software for electronic control systems in compliance with AUTOSAR standards. Proven track record in delivering scalable architectures, integrating communication stacks, and automating testing pipelines. Passionate about continuous improvement, clean code, and high-integrity embedded systems.

## Work Experience

### Software Architect

**EVOLUTION SYNERGÉTIQUE AUTOMOTIVE**, Seville  
*September 2023 – Present*

- Defined and analyzed customer requirements, translating them into technical specifications.
- Designed software architecture ensuring compliance with AUTOSAR Classic Platform and scalability for future feature growth.
- Conducted SIL testing using CANoe, validating software functionality and system integration.
- Developed Jenkins pipelines for ARXML-to-code conversion and SIL testing.
- Built Python-based tooling, reducing repetitive engineering work by over 20% and improving test coverage consistency.
- Supervised and mentored a team of software engineers.

### Embedded Software Engineer

**EVOLUTION SYNERGÉTIQUE AUTOMOTIVE**, Seville  
*March 2023 – September 2023*

- Designed and implemented BSW libraries adhering to AUTOSAR and MISRA guidelines.
- Developed MCAL software using Tresos and BSW software using Comasso.
- Created Software Detail Design based on system requirements.
- Performed unit testing to validate software components and ensure quality.

### Junior Embedded Software Engineer

**AICIA, University of Seville**, Seville  
*March 2022 – March 2023*

- Designed and implemented an ECU gateway for CAN-to-Ethernet communication using RJ45.
- Debugged and optimized embedded software for protocols such as CAN, UDS, and TCP.
- Collaborated with cross-functional teams to maintain and enhance embedded systems.

## Skills

### Technical Skills

- Programming Languages:** C/C++, Python, Java, Javascript, MATLAB/Simulink
- Microcontrollers:** NXP S32K144, NXP S32K148, NXP S32K344, ESP32
- Tools:** CANoe, Git, Enterprise Architect, S32DS, Tresos, Comasso, Ozone, Busmaster
- Communication protocols:** CAN, UDS, TCP/IP, SPI
- Standards:** AUTOSAR, ISO 26262, ISO 14229, MISRA

### Management Tools

- Kanban Methodology, Scrum, Agile
- Polarion ALM, Helix ALM, Atlassian Tools

## Education

**Degree in Telecommunication Technologies Engineering (Electronics)**  
*University of Seville* | 2017 – 2022

## Certifications & Languages

- English:** B2 → C1 (in progress)
- German:** A1 (in progress)