Adrián Sánchez García ~ Embedded Software Engineer

Email: adriansangar98@gmail.com
Phone: +34 644 33 59 86
Location: Dos Hermanas, Seville
LinkedIn: Adrián Sánchez García

Professional Summary

Automotive Embedded Software Engineer with 2+ years of experience designing, developing and optimizing software for electronic control systems. Proven expertise in creating scalable AUTOSAR-compliant architectures, implementing communication protocols and automating testing processes with Python. Collaborative team player passionate about delivering robust embedded solutions aligned with industry standards.

Work Experience

Software Architect

EVÓLUTION SYNERGÉTIQUE AUTOMOTIVE, Seville
September 2023 – Present

- Defined and analyzed customer requirements, translating them into technical specifications.
- Designed software architecture to meet client needs while ensuring scalability and compliance with standards.
- Conducted SIL testing using CANoe, validating software functionality and system integration.
- Developed Python-based tools to automate repetitive tasks, reducing manual effort by 20%.
- Supervised and mentored a team of software engineers.

Embedded Software Engineer

EVÓLUTION 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.

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, MATLAB/Simulink
- **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 Technology Engineering
University of Seville (*2017 – 2022*)

English Certification (C1) In Progress

English Certification (B2)
Trinity College, 2022

German Certification (A2) In Progress