Sergio Gasquez

Curriculum Vitae

Granada - Spain
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Experience

2022–Present **Embedded Software Engineer**, *Espressif Systems*, Remote.
Contributing to the open-source project, esp-rs, which facilitates the use of Rust in ESP32 boards.

2021–2022 **Software Engineer**, *RTI*, Remote.
Software developer for Connext DDS Micro, a DDS implementation for resource-constrained applications, and Connext TSS, a FACE TSS solution powered by Connext DDS.
- C/C++ programming.
- Communication protocols: DDS.

2020–2021 **Embedded Software Engineer**, *ITG*, A Coruña.
R&D Firmware Engineer developing features for a drone in a box solution.
- C/C++ programming: Embedded Linux (ARM) and AVR software development.
- Communication protocols: I2C, SPI, UART, Mavlink.
- Python Scripting.
- Agile methodology: Scrum.

2018–2020 **Firmware Engineer**, *HP Inc*, Barcelona.
R&D Firmware Engineer developing security features for the Ink Delivery System both for 3D and Large Format Printers.
- C++ programming: Embedded Linux Software development.
- Tcl Scripting.
- Unit Testing using GTest.
- Agile methodology: Scrum.

2018–2018 **Firmware Engineer**, *Arual Design*, Granada.
- C/C++ programming: Microcontrollers software development.
- Telecommunications: Developed communications using Sigfox and GPRS/GSM technology.
- IoT platforms: Collection and visualization of data via IoT platforms.

Education

2018–2019 **Master's in Electronic Systems for Intelligent Environments**, *Higher Technical School of Telecommunication Engineering*, UMA, Málaga.
Focused on IoT and *microcontrollers* .

2013–2018 **Bachelor's Degree in Telecommunications Engineering**, *Higher Technical School of Computer Sciences and Telecommunications Engineering (E.T.S.I.I.T)*, UGR, Granada.
Focused on *electronics* and *microcontrollers* .

2017–2018 **Erasmus +: Bachelor's Degree in Telecommunications Engineering**, *Fakulteta za elektrotehniko*, Univerza v Ljubljani, Ljubljana.
Focused on *artificial intelligence* and *electronics*

Projects

Firmware Data Acquisition System

Firmware Monitoring and watering system

AI Autonomous mobile robot in a escalated town using ROS

Certifications

Cambridge C1 - Cambridge English Level 2 Certificate in ESOL International (Advanced)

Feabhas Real-Time Design Patterns for Modern C++

Udemy Modern C++ Multithreading