

Sergio Gasquez

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EDUCATION

University of Málaga (UMA)

Master's in Electronic Systems for Intelligent Environments

Málaga, Spain

September 2018 – September 2019

University of Granada (UGR)

Bachelor's Degree in Telecommunications Engineering

Granada, Spain

September 2013 – June 2018

EXPERIENCE

Embedded Software Engineer

Instituto Tecnológico de Galicia (ITG)

Developed 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

March 2020 – Present

A Coruña, Spain

Firmware Engineer

HP Inc

Developed 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

September 2018 – January 2020

Barcelona, Spain

Firmware Engineer

Arual Design

- C programming: Microcontrollers software development.
- Telecommunications: Developed communications using Sigfox and GPRS/GSM technology.
- IoT platforms: Collection and visualization of data via IoT platforms.

January 2018 – June 2018

Granada, Spain

PROJECTS

Monitoring and watering system | C/C++, ARM, MQTT, Wifi, RTOS, Qt

September 2018 – September 2019

- Designed the firmware architecture based in FreeRTOS
- Integrate several sensors into the CC3200 LaunchPad
- Deployed a MQTT server
- Developed a Qt user interface
- Developed an online dashboard

Data Acquisition System | C/C++, AVR, PCB Desing, GSM/GPRS, Losant

September 2017 – June 2018

- Desinged a Data Adquisition System(including electronics conditionings)
- Designed, asambled and verified a 2 layer PCB
- Developed code using AVR/Arduino
- Used GPRS/GSM in order to send data to the cloud
- Developed a websyte with authentication in order to visualize a dashboard

TECHNICAL SKILLS

Languages: C/C++, Python, Tcl, Matlab

Developer Tools: Git, Svn, Linux, CMake, Docker, Jira