Max Serra Lasierra

B.Sc. in Physics | R&D Engineer

DETAILS

04.10.1996

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Germany

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LinkedIn Profile

SKILLS

Python
C
SQL (Postgres)
InfluxDB
LoRa networks
Bluetooth Low Energy
Git/Subversion
Embedded HW and SW
TI-RTOS
Odoo framework
Product Design
Team Coordination

LANGUAGES

Catalan - Native
Spanish - Native
English - Proficient
German - Intermediate

INTERESTS

Data Science / AI
Blockchain / DeFi
Electric mobility
Climbing / Bouldering
Woodwork
Gardening

WORKING EXPERIENCE

Research and Development Engineer

FFT Produktionssysteme GmbH, Bremen
June 2019 - June 2021

- Designed a PCB (Printed Circuit Board) with sensors, display and wireless capability, which is now in the process of getting a CE certification.

- Conceptualized and developed an IoT sensor and gateway for safer sailplane winch launches. During 2020 we deployed the system in two flight clubs and collected data of over 200 launches.

- Coordinated the work of three master students during their internships. Also mentored one masters thesis on the use of RFID for logistics.

- Designed and led the SW architecture of a calibration machine for load cells and force transducers.

- Contributed to the concept and development of a data management and evaluation tool based on the Odoo framework.

Internship

FFT Produktionssysteme GmbH, Bremen
June 2018 - June 2019

- Developed a wireless sensor network for structural monitoring of transportation modules.

- Designed a PCB prototype with sensors, display and wireless capability.

- Wrote and tested C drivers and libraries for the PCB sensors and display.

Research assistant

Optical Trapping Lab, University of Barcelona, Barcelona
August 2016 - February 2017

- Collaborated in the generation of diffraction patterns with acousto-optic modulators to create optical tweezers used for cell manipulation.

EDUCATION

M.Sc. in Data Science

University of Potsdam, Potsdam
October 2021 - ...

MicroMaster in Statistics and Data Science

Massachusetts Institute of Technology, online

- Courses: Probability, Statistics, Data Analysis in Social Science and Machine Learning with Python.
- [See course record.](#)

B.Sc. in Physics

University of Barcelona, Barcelona
September 2014 - January 2019

- Pathway: Fundamental Physics
- Thesis: "Interaction of SAW with the nuclear spin"

REFERENCES

Markus Neuhaus

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