



Javier Burgués



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Reutlingen, DE



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Technical Skills

Data Analysis
Statistics
Machine Learning
Big Data
Signal Processing
Electronics / IoT
Robotics / AI

Soft Skills

Leadership
Commitment
Communication
Resilience
Team working

Programming

MATLAB (10+ years)
Python (5 years)
LabVIEW (5 years)
C, C++, Java (3 years)
AutoCAD (2 years)
EAGLE (2 years)
SQL (2 years)

Languages

Spanish (Native)
English (Proficient)
Catalan (Fluent)

Awards

Fulbright scholarship
(2012-2013)

Publications

Journal articles (15)
Intl. conferences (5)
Patents (1)

Summary

I currently work as a Product Launch Leader at ScioSense Germany GmbH. I have experience as Lead Engineer in several international R&D projects. Strong background in programming, signal processing, machine learning, statistics, data analysis and visualization. Excellent learner, team worker, resilient and good communicator. Proficient in English.

Professional Experience

ScioSense Germany GmbH, Reutlingen, 08/2020 – Present

- **Product Launch Leader**, 08/2020 – Present

Institute of BioEngineering of Catalonia, Barcelona, 02/2014 – Present

- **Lead Engineer**, 07/2019 – 07/2020
SNIFFDRONE project: Drone for monitoring industrial odor emissions.
- **PhD Candidate**, 12/2015 – 07/2019
Thesis: Gas source localization and mapping using nano-drones.
- **R&D Engineer**, 09/2015 – 12/2015
AIRSENSE project: Sensor test for Indoor Air Quality applications.
- **Algorithm Developer**, 02/2014 – 02/2015
SOMNOALERT project: Unsteady Driver Warning system for automobiles.

FICOSA Automotive, Barcelona, 02/2015 – 07/2015

- **Firmware Developer**
Programming (C) the Telematic Control Unit (TCU) of vehicles.

GMV Aerospace and Defence, Madrid, 11/2010 – 02/2012

- **FPGA Engineer**, 11/2010 - 02/2011
Development of FPGA applications for the European Space Agency (ESA)
- **Firmware Engineer**, 11/2010 - 02/2012
Development and test (C++) of Airbus audio management system.

Education

- **PhD in Engineering and Applied Sciences**, University of Barcelona, 2019
- **MSc in Data Science and Big Data**, University of Barcelona, 2015
- **MSc in Computer Science**, University of Southern California, 2013
- **BSc in Telecommunication Engineering**, University Autònoma of Madrid, 2010

Teaching experience

- Data Analysis for Chemical Sensing Systems, University of Barcelona, 2019/20
- MATLAB programming, Institute of BioEngineering of Catalonia, 2017-2020
- Digital Signal Processing, University of Barcelona, 2018/19