Robert Leonard

ELECTRONIC ENGINEER & COMPUTER SCIENTIST

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SUMMARY

I am a very commited engineer/scientist looking for a long-term R&D position to apply and boost my skills in sensors, electronics, robotics, digital signal processing, machine learning, data analysis in applications such as IoT, wearables, smart cities and smart mobility, among others. Ideally based on Madrid, Barcelona or Zaragoza.

EXPERIENCE

Postodoctoral Researcher
Institute of BioEngineering of Catalonia   *May 2019 - Present*
SNIFFDRONE - Environmental odour monitoring using drones

R&D Engineer
Institute of BioEngineering of Catalonia   *Sep 2015 - Feb 2016*
Chemical sensor test for Indoor Air Quality and Safety applications

Algorithm developer
Institute of BioEngineering of Catalonia   *Feb 2014 - Feb 2015*
SOMNOALERT - Unsteady Driver Warning system for automobiles

Hardware/Software Engineer
GMV Aerospace   *Feb 2011 - Feb 2012*
FPGA programming for aerospace applications

Research Intern
ATVS - Biometric Recognition Research Group
Sep 2007 - Sep 2010
Developed a biometric recognition system based on hand geometry

EDUCATION

PhD in Engineering and Applied Sciences
University of Barcelona (UB)   *Dec 2015 - Jul 2019*
- Development and testing of electronic noses.

- Signal improvement for chemical sensors.

- Gas source localization and mapping using drones and rovers

MSc Electrical Engineering & Computer Science
University of Southern California (USC)   *Aug 2012 - Dec 2013*
Specialization: Real-Time Systems, Robotics and Artificial Intelligence

BSc Telecommunication Engineering
University Autonoma of Madrid (UAM)   *Sep 2005 - Sep 2010*
Specialization in Sensors, Image Processing and Machine Learning

SKILLS

Digital Signal Processing	■ ■ ■ ■ ■
Statistics & Machine Learning	■ ■ ■ ■ ▢
Data Analysis & Visualization	■ ■ ■ ■ ▢
Electronics & PCB design	■ ■ ■ ■ ▢
CAD Design & 3D Printing	■ ■ ■ ■ ■
Arduino, Raspberry Pi	■ ■ ■ ■ ▢
C, C++, Java, Python, Matlab, Labview, Autocad, EAGLE	■ ■ ■ ■ ■
GitHub, SVN, JIRA	■ ■ ■ ■ ▢
MS Office, LaTeX	■ ■ ■ ■ ▢

LANGUAGES

Spanish	■ ■ ■ ■ ■
German	■ ■ ■ ■ ▢
English	■ ■ ■ ■ ▢

AWARDS

Severo-Ochoa Scholarship (MINECO)   *2015-12-01*

Fulbright Scholarship (Fulbright)   *2012-02-01*

Best Academic Performance (UAM)   *2010-09-10*