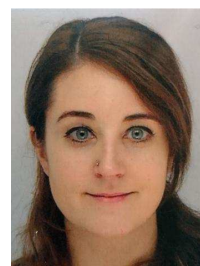


CURRICULUM VITAE

Personal Data

Name: María Patricia
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Birthplace: Valencia, Spain
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Studies

University:

- **Master** in Electronic Engineering. University of Valencia. *Ended in September 2013.*
- Technical Engineering in Telecommunications, specialization in Electronic Systems. University of Valencia. *Ended in September 2012.*

Advanced Language courses:

- 2015-2016, intensive **German** courses in *Wifi Salzburg* (Austria).
- 2008-2013, intensive **Japanese** in the *Confucius Institute* of Valencia.
- 2008, 3 weeks in the *E.F. School* in Oxford (U.K).
- 2007, 3 weeks in *Runwalkers School* in Killarney (Ireland).

Languages

Spanish: mother tongue.

Catalan: mother tongue.

Japanese: base level.

English: fluent.

German: intermediate.

Professional experience

-2015-2017: working at IKEA in the Sales Department. Salzburg. Austria.

-2013: Research technician in the electronic department of the University of Valencia attending to the next responsibilities:

- *Organization and maintenance of the laboratory.*
- *Design of PCBs.*
- *Soldering of PCBs.*
- *Programming in C/C++ for ATmega (Arduino).*
- *Internal research & development.*

-2013: **Master** thesis: Supervision and monitoring of a system kit applied to tele-home care.
Various prototype devices for the supervision of people with dependency in their homes.
*Integrated with **Arduino Fio** and implemented with a customized PCB for the project, communicated via radio frequency using an **XBee-PRO**.*
Sensors included: accelerometer, temperature, Hall Effect sensor, pressure and movement detection, characterized and conditioned for the use.
*Device ability to do pictures with a **JPEG TTL** camera and send it to a user interface.*
*In the case of an emergency event, the device sends a message through **GSM** communication to the family mobile phones with specific information.*
*All the data was visualized through a customized user-interface implemented for the project under **Labview** software.*

-2012: **Career** thesis: Monitoring system service for senior residences.
Prototype of devices for the personal vigilance of persons in senior residences.
*Diverse PCBs implemented for this project using **ATmega328P-PU** microcontroller.*
*Communication between the main PC station and sensor nodes (stationary and individual necklaces) via radio frequency using **XBee**. These nodes included: accelerometer, temperature, **GPS** and **CO2** detector, characterized and conditioned for the use.*
*The data collected from devices could be visualized through a friendly user-interface implemented for the project with **Labview** software.*

-2010/2011: Business practices in **FYM NETWORKING S.L** in the electronics department. Responsibilities:

- Installation of **RAC** systems.
- Installation and startup of computers.
- Learning **CISCO** language.

Additional Knowledge

Knowledge of use, easily expandable if necessary, of the following programs:

- **Analysis and design of circuits:** MicroSim, PSIM, Pspice.
- **Signal and Control processing:** Matlab, Simulink.
- **Programming:** Labview (National Instruments), Arduino, Dev C++, OrcadPLD (PAL, GAL ...), CX-Programmer (Omron PLC), Step-7 (Siemens PLC), Keil μ Vision (C language for 80xx Microprocessor), Xilinx ISE (FPGA with VHDL), Xilinx EDK (embeded Microprocessor in FPGA).
- **Schematic and PCB design:** Mentor Graphics, Orcad.
- **Graphic design:** Gimp2, Photoshop.
- **Office Suites:** Microsoft Word, Microsoft Excel, Microsoft PowerPoint.

Additional Information

- Driving license type B.
- I'm part of the directive of a Japanese association in Spain (**Kimono Club Valencia**) that is focused especially in the traditional clothing and widening Japanese culture in the country.
- I have a Youtube channel where I show my life in Austria and my travels:
https://www.youtube.com/channel/UCPr56Y6wjBzcMlf8_CkhDiQ
- Hobbies and interests:** painting, sewing, sports, piano and Japanese culture.