Alvaro Zornoza Uña

Industrial Electronics and Automation Engineering
Originally from Madrid (Spain), but now living in Graz (Austria)
+34 693 803 083
alvaro.zornoza@gmail.com
in *Alvaro Zornoza Uña*
 alvarozornoza

OVERVIEW

- My main areas of interest are robotics, drones, embedded systems, IoT, AI and computer vision.

- I consider myself a responsible, hard-working and organised person. I am always eager to learn new things. Extracurricular activities carried out during my bachelor's degree have provided me with good communication, teamwork and leadership skills.

WORK EXPERIENCE

R&D Engineer Intern   Mar 2019 - Present
Siemens AG (Graz)

- Writing master thesis at the Development House of the Digital Factory department.

Computer Vision Graduate Researcher   Oct 2018 - Feb 2019
Polytechnic University of Catalonia - BarcelonaTech (Barcelona)

- Participating in the European project Personal Online Dosimetry Using Computational Methods. PODIUM project is part of CONCERT European Joint Programme for the Integration of Radiation Protection Research under Horizon 2020.
- Integrating RGB-D cameras for 3-D human body localization and tracking (Visual Studio, C++, C#, OpenCV)

IoT Application Engineer and Consultant   Abr 2018 - Oct 2018
thethings.iO (Barcelona)

- Integrating third-party services (APIs REST) with the platform (HTTP, CoAP & UDP and MQTT protocols).
- Prior knowledge of Web applications development (Angular, NodeJS and MongoDB)
- Supporting customers with the setup of IoT projects and programming of cloud-code scripts (NodeJS).
- Representing on behalf of the company for projects and meetings with other customers and institutions.

Intern   Sep 2017 - Abr 2018
thethings.iO (Barcelona)

- Programming libraries for embedded-system (C++, Arduino, Python)
- Integrating services of Sigfox and other LPWAN technologies with the platform.
- Writing website content for both the blog and documentation of the platform.

Assistant Laboratory Technician   Feb 2017 - Jul 2017
Kaunas University of Technology (Lithuania)

- Internship at FabLAB Kaunas while an Erasmus + Exchange assisting for scientific research.
- Commissioning and maintenance of simulation equipment. Documentation and programming of DJI drones.

EDUCATION AND TRAINING

Master's Degree in Automatic Control and Robotics   Sep 2017 - Present
Polytechnic University of Catalonia - BarcelonaTech (Spain)

- 90/120 ECTS credits already completed.
- Honors in Human Robot Interaction and Teleoperation.
- Currently writing master thesis in Austria as an Erasmus+ exchange student.

Bachelor's Degree in Industrial Electronics and Automation Engineering   Sep 2013 - Jul 2017
Technical University of Madrid (Spain)

- 240 ECTS credits. GPA: 7.1/10 (B).

- Honors in Physics I and Business Management.
- Outstanding (A+) grade in Bachelor's Thesis: Design of a Drone Based Measurement System for GSM signals.

Bachelor's Degree in Electronics Engineering
Feb 2017 - Jul 2017

Erasmus+ Exchange at Kaunas University of Technology (Lithuania)

- Internship at the laboratory in FabLAB Kaunas.
- Writing the Bachelor's thesis and attending several elective courses.

CONFERENCES, COURSES AND SEMINARS

Digital Signal and Image Processing with MATLAB
Nov 2016

Czech Technical University in Prague (Czech Republic)

Organisational Behaviour
Sep 2015

Technical University of Madrid (Spain)

- Seminar on Organisational Behaviour for mentorship training.
- Learning communication and motivation skills and how to make efficient presentations.

LANGUAGES

Spanish
Native speaker
English
Professional working proficiency. B2 - British Council Aptis English Test
German
Elementary proficiency. A1 - Official Language School of Madrid (Spain)

IT SKILLS

Programming languages
C, C++, C#, ROS, Python, MATLAB & Simulink, VHDL (FPGA), NodeJS, GScript, API REST and TEX
PLC programming
Siemens STEP 5 and STEP 7
Simulator and schematic editor
Eagle, PSpice and OrCAD
CAD programs
AutoCAD and Inventor
Office automation
MS Office and G Suite

OTHER RELEVANT EXPERIENCE/SKILLS

- Coordinator at ESN UPC (Barcelona). Organizing events and activities for new incoming students.
- Basketball Referee for Basketball Association of Madrid. Officiating basketball games during five seasons. Capabilities such as empathy, conflict resolution and teamwork under pressure.
- Secretary of an University Association: Mountain an Leisure Activities Club of UPM (Madrid). Institutional relations, corporate image and groups management.
- Mentoring program for new students at University. Providing experience, socialization and personal support to facilitate a good starting experience and beyond.
- Volunteer experience in several sports events, such as Euroleague Final Four at Madrid (2015) and King's Cup of Basketball at Malaga (2014).
- Driver's license (B) and own car.