



Javier Rodriguez Puigvert

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Education

- Present - Jan 2020 **PhD Computer Science at Robotics, Perception and Real Time Group**, *Universidad de Zaragoza*, Advisors: Javier Civera and Ruben Martinez-Cantin.
- Jan 2019 - Jun 2019 **Deep Learning Nanodegree Foundation**, *Udacity*.
- Jul 2014 - Sep 2018 **Master of Science in Computer Science and Engineering**, *Technische Hochschule Köln*, Cologne, Germany.
- Sep 2012 - Jul 2013 **Erasmus Exchange Program: Bachelor Thesis**, *Technische Hochschule Köln*, Cologne, Germany.
- Sep 2008 - Sep 2012 **Bachelor of Science in Telematic Engineering**, *Universidad de Alcala*, Madrid, Spain.

Experience

- Dec 2019 - Aug 2014 **Software Developer**, Cologne Intelligence GmbH, Germany.
 - **InPosition System:** Design and development of an innovated indoor positioning solution based on visual data. *Machine Learning, Computer Vision, Point Cloud*.
 - **InPlaces SDK:** Design and development of InPlaces Android sdk that permits navigation through augmented reality. *Augmented Reality, Computer Vision, Point Cloud, Android*.[\[video\]](#)
 - **Der Postbank Finanzassistentz.** Development of new features on mobile Banking App.*Android*.
- Sept 2013 - Aug 2014 **Student as Software Developer**, Grandcentrix GmbH, Germany.
- Jan 2012 - Sep 2012 **Internship as Electronic Engineer**, Abengoa, Spain.

Publications and talks

Bayesian Deep Networks for Supervised Single-View Depth Learning ArXiv [\[pdf\]](#)[\[video\]](#)

Localization Service Using Sparse Visual Information Based on Recent Augmented Reality Platforms. ISMAR (In Adjunct Proceedings of the IEEE International Symposium for Mixed and Augmented Reality 2018) Munich. [\[pdf\]](#)[\[video\]](#)

<http://wherecamp2018.geoit.org/speakers/> **Obstacle Collision Avoidance System for visually impaired based on Tango.** Technische Hochschule Köln Cologne, Germany.

Tango Step by Step: Indoor Positioning and Navigation. Digility Conference and Expo 2017. Cologne, Germany.[\[video\]](#)[\[video1\]](#)

Indoor Navigation with Google Tango. Droidcon UK 2016. London, United Kingdom. [\[video\]](#)

Robot as a complex actuator in Sensor Cloud controlled through cloud by an Android application. Technische Hochschule Köln, Cologne, Germany.

Technical Skills

Programming Languages **Python, Java, Android, C/C++ and Kotlin.**

Infrastructure / Cloud **Amazon Web Services, EC2, Amazon SageMaker, Docker.**

SW Methodologies **DevOps, Continuous Integration, Continuous Delivery, Test Driven Design, Clean Code.**

Developments Tools **IntelliJ IDEA(Android Studio, PyCharm), Git, Atlassian Tools (Bitbucket, Jira, Bamboo).**

Methodologies **Agile software development (Scrum, Kanban), Waterfall.**

ML Frameworks **PyTorch, OpenCV.**

Android **ARCore, Reactive Programming, Espresso, Retrofit, Android NDK.**

Interests

2012 - 2016 **Member of Eurobotics Engineering Team, ARC and IEEE branch of the University of Alcala, [\[web\]](#).**

Eurobotics Engineering Team is a team of robotics enthusiasts which participates in Eurobot International Students Robotic Contest.

- 5-8Th place Eurobot Europe Robotic Contest Yverdon-les-bains, Switzerland
- 1 St place Eurobot Spain Robotic Contest 2015 Madrid, Spain
- 1 St place Eurobot Germany Robotic Contest 2015 Aachen, Germany
- 1 St place Eurobot Spain Robotic Contest 2014 Madrid, Spain
- 5-8 Th place Eurobot Europe Robotic Contest 2012 La Ferté-Bernard, France

Additional Education

2015 **Introduction to Big Data with Apache Spark, BerkeleyX,** University of California, Berkeley.

2014 **Foundations of Computer Graphics, BerkeleyX,** University of California, Berkeley.

2014 **Databases,** Technische Hochschule Köln.

2014 **Software Engineering,** Technische Hochschule Köln.

2013 **Embedded Technologies and Architectures in Satellites,** Universidad de Alcalá.

Languages

Spanish **Native Speaker**

Catalan **Near Native**

German **Full professional proficiency**

DSH 2 (C2-C1) (Deutsche Sprachprüfung für den Hochschulzugang)

English **Full professional proficiency**