

# Wilson Umberto Villa

*Curriculum vitae for the purpose of publication on the web*



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## Personal Information

First name Wilson Umberto  
Last name Villa  
Fiscal code VLLWSN89T22Z243G  
Place and date of birth Istanbul (Turkey), December 22, 1989  
Nationality Italian  
Email villa.1327106@studenti.uniroma1.it

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## Education

- 2014/15 - present **Master degree, Engineering in Artificial Intelligence and Robotics [Courses delivered in English].**  
*Sapienza University of Rome, Italy.*
- 2009/10 - 2013/14 **Bachelor degree, Engineering in Computer Science and Control Engineering.**  
*Sapienza University of Rome, Italy, 97/110.*  
Thesis title: Sistema per la gestione delle Idee
- 2004/05 - 2008/09 **High School Diploma.**  
*Scientific High School "Innocenzo XII", Anzio, Italy, 70/100.*

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## Professional Experience

- 2017 **Participation at the RoboCup@Work League held at the RoboCup German Open 2017. Magdeburg, Germany.**  
*SPQR@Work team member: software designer and developer.*
- 2016 **Participation at the RoboCup@Work League during the RoboCup competitions. Leipzig, Germany.**  
*SPQR@Work team member: software designer and developer.*
- 2015 **Participation at the Maker Faire the European Edition with the project HomegrownRC. Rome, Italy.**  
*Hardware designer and software developer.*
- 2015 **Participation at the Start Cup Lazio competition with the project HomegrownRC, also selected as one of twelve finalist projects. Rome, Italy.**  
*Hardware designer and software developer.*

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## Studies and experiences abroad

- 2011/12 **Erasmus Programme.**  
*Place: Granada (Spain) | Language: Spanish | Duration: 10 months.*

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## Languages

Italian **Mother tongue**  
English **Very good**  
Spanish **Fluent** *Experience abroad: 10 months spent in Spain (Granada) during the Erasmus programme.*

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## Skills

### Computer skills

Programming languages: C, C++, Java, Python, PHP, JavaScript  
Mathematical tools: Matlab, Octave  
Document markup languages: LaTeX, Html  
Operative systems: Mac, Linux, Windows  
3D modelling tools: Blender, Tinkercad  
Others: Arduino, Android SDK, App Inventor, MySQL

### Robotics skills

Robotics frameworks: ROS  
Robotics simulation environments: Stage, Gazebo, V-REP  
Robotics platforms: Kuka Youbot, Kuka LWR, self-built differential drive robot, 3D Systems Geomacig Touch haptic interface  
Addressed problems: Autonomous navigation, SLAM, calibration, planning and perception

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## Publications

2017 **Grounding Natural Language Instructions in Industrial Robotics.**  
*IROS 2017 Workshop - Human-Robot Interaction in Collaborative Manufacturing Environments (HRI-CME). D. Evangelista, W. U. Villa, M. Imperoli, A. Vanzo, L. Iocchi, D. Nardi, A. Pretto.*

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## Personal presentation

Driving licence: B