

# Jessica Villalobos

*Master of Science in Engineering,  
Automatic Control and Robotics*

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## Education

2015–2017 **Double Masters Degree European Master on Advanced Robotics Plus (EMARO+)**, *Università Degli Studi Di Genova (Via Opera Pia 13, 16145, Genoa, Italy) / Politechnika Warszawska (00-665 Warsaw, ul.Nowowiejska 24, Poland, graduated with honours).*

2010–2014 **Bachelor of Science in Mechatronics Engineering**, *Instituto Tecnológico y de Estudios Superiores de Monterrey, Avenida Eugenio Garza Sada 1500, 20328 Aguascalientes.*

2013 (Jan.–Jun.) **Semester abroad (Mécanique des Systèmes)**, *École Supérieure d'Ingenieurs Léonard de Vinci, 12 Avenue Léonard de Vinci, 92400 Courbevoie.*

## Master thesis

Title *Investigating the human body postures for the purpose of service robots*

Supervisors Prof. Teresa Zielińska (Politechnika Warszawska), Prof. Maura Casadio (Università Degli Studi Di Genova)

Description Analysis of static and dynamic adjustment of postures obtaining information about human body adjustment when performing certain activities. Obtained information enables the improvement of the humanoid robots stability in different situations by transferring human patterns of posture adjustment to them.

## Experience - Vocational

2014–2015 **Internship**, *TRIOLABS SAPI DE CV, Avenida Independencia 1863, # 6, 20124 Aguascalientes.*

2015 (Feb.–May) **Android developer**, *TRIOLABS SAPI DE CV, Avenida Independencia 1863, # 6, 20124 Aguascalientes.*

## Languages

Spanish **Native**

French **A1**

Italian **A1**

English **B2**, TOEFL ITP 627pts (2015) and TOEIC 975pts (2013)

## Computer skills

Software MATLAB, Mokka, V-REP, Creo Parametric, MS Office, SolidWorks, Abaqus, MPLAB, Proteus, Multisim, Automation Studio, Microsoft Visual C++, OpenModelica, LabVIEW, ScicosLab, Eclipse, Android Studio

Programming Languages C/C++, Assembler, Java

Operating Systems Microsoft Windows, Canonical Ubuntu

Frameworks ROS, V-REP

## Certificates

Sollidworks ID: C-QYNETUE6U7

## Interests & Skills

Interests Robotics, humanoid robots, artificial intelligence and home automation

Skills Teamwork, responsible, autodidacticism, proactive and work under pressure

## Publications

Enrique Coronado, Jessica Villalobos, Barbara Bruno, and Fulvio Mastrogiovanni. Gesture-based robot control: Design challenges and evaluation with humans. In *Robotics and Automation (ICRA)*, 2017 *IEEE International Conference on*, pages 2761–2767. IEEE, 2017.

Jessica Villalobos and Teresa Zielińska. Study of postural adjustments for humanoidal helpmates. *Journal of Automation, Mobile Robotics and Intelligent Systems*, 11(04):15–25, 2017.

## References

Please contact me for specific information