

# Curriculum Vitae

Mr. José-Luis Vilchis-Medina

## ➤ *PhD. in Computer Science*<sup>a</sup>

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<sup>a</sup>. (Artificial Intelligence & Logic)

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## ► Current Situation ◀

Oct-2021/today	<b>French Naval Academy</b> <i>Naval Academy Research Institute (IRENav EA3634), Maritime Information Modeling and Processing group.</i> <b>Assistant Professor of Computer Science.</b>	<b>Brest, France</b>
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## ◀ Employment Situation ▶

Oct-2020/Sep-2021	<b>ONERA-The French Aerospace Lab</b> <i>DTIS, SEAS group.</i> <b>Postdoctoral position</b>	<b>Toulouse, France</b>
Oct-2019/Sep-2020	<b>University of Montpellier</b> <i>LIRMM Lab, EXPLORE group.</i> <b>Postdoctoral position</b>	<b>Montpellier, France</b>
Sep-2018/Aug-2019	<b>Aix-Marseille Université</b> <i>LIS lab, CALcul NATurel group</i> <b>Teaching-Research position (ATER)</b>	<b>Marseille, France</b>

## ► Subjects of Research ◀

- *Knowledge Representation and Reasoning*
- *Non-monotonic Reasoning*
- *Non-classical Logics*
- *Logic Programming*
- *Decision Theory*
- *Resilience Theory*

## ► Education ◀

<b>Oct-2015/Dec-2018</b>	<p style="text-align: center;"><b>PhD. in Computer Science</b>  Laboratoire d'Informatique et Systèmes (LIS)  CAIcul NATurel group</p> <p style="text-align: center;"><b>Title :</b>  <i>Modeling of Resilient System in Default Logic.  Application to Solar Power UAV.</i></p> <p style="text-align: center;"><b>Supervisors :</b>  Pierre SIEGEL and Andrei DONCESCU</p>	<b>Marseille, France</b>
<b>Sep-2015</b>	<p style="text-align: center;"><b>M.Sc. in Electrical and Automation Engineering</b>  INP-ENSEEIH</p> <p style="text-align: center;"><b>Option :</b>  Control, Decision and Critical Computing Systems</p> <p style="text-align: center;"><b>Title :</b>  <i>Design of a versatile electronic demonstrator for the  measurement of displacements by optical re-injection in a  laser diode, with control of the emitted beam.</i></p> <p style="text-align: center;"><b>Supervisors :</b>  Julien PERCHOUX and Antonio LUNA ARRIAGA</p>	<b>Toulouse, France</b>
<b>Aug-2012</b>	<p style="text-align: center;"><b>B.Sc. in Electronics Engineering</b>  Universidad Autónoma de Baja California</p> <p style="text-align: center;"><b>Option :</b>  Control Systems - <i>with Honors</i></p> <p style="text-align: center;"><b>Final Project :</b>  <i>Design of an embedded system for agricultural  applications.</i></p>	<b>Ensenada, Mexico</b>

## ► Price – Awards ◀

<b>High academic achievement by the National Evaluation Center (CENEVAL)</b> Universidad Autónoma de Baja California, Promotion 2012 B.Sc. in Electronic Engineering, Honors.
<b>Mexico-France Exchange Engineers Technology (MEXFITEC)</b> Electronic and Signal Processing, INP-ENSEEIH, 2011

## ► Languages ◀

<b>Spanish</b> Mother tongue	<b>English</b> Advanced level	<b>Français</b> Advanced level	<b>Portugais</b> Basic-Intermediate level
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## ► Technical Skills ◀

<b>Text editor :</b> L <sup>A</sup> T <sub>E</sub> X, Vim ; <b>Programming languages :</b> Prolog, C/C++, Python, Bash, HTML/CSS, PHP ; <b>OS :</b> macOS, Linux ;
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## ► Publications ◄

- [1] José-Luis Vilchis-Medina, Karen Godary-Déjean, and Charles Lesire. Autonomous decision-making with incomplete information and safety rules based on non-monotonic reasoning. *IEEE Robotics and Automation Letters*, 6(4) :8357–8362, 2021.
- [2] José Luis Vilchis Medina, Pierre Siegel, Vincent Risch, and Andrei Doncescu. A resilient behavior approach based on non-monotonic logic. *Journées d’Intelligence Artificielle Fondamentale*, page 16, 2020.
- [3] José Luis Vilchis Medina, Pierre Siegel, Vincent Risch, and Andrei Doncescu. A resilient behavior approach based on non-monotonic logic. In *Mexican International Conference on Artificial Intelligence*, pages 403–413. Springer, 2019.
- [4] José Luis Vilchis Medina, Pierre Siegel, Vincent Risch, and Andrei Doncescu. An implementation of a nonmonotonic logic in an embedded computer for a motor-glider. In *35th International Conference on Logic Programming (ICLP)*. Accepted, 2019.
- [5] José Luis Vilchis Medina, Pierre Siegel, Vincent Risch, and Andrei Doncescu. Intelligent and adaptive system based on a non-monotonic logic for an autonomous motor-glider. In *2018 15th International Conference on Control, Automation, Robotics and Vision (ICARCV)*, pages 442–447. IEEE, 2018.
- [6] José Luis Vilchis Medina, Pierre Siegel, and Andrei Doncescu. Non-monotonie et resilience : Application au pilotage d’un motor-planeur autonome. *Journées d’Intelligence Artificielle Fondamentale*, 12 :6, 2018.
- [7] José-Luis Vilchis Medina, Pierre Siegel, and Andrei Doncescu. Contrôle de vol d’un planeur basé sur une logique non-monotone. In *Journées Francophones sur la Planification, la Décision et l’Apprentissage pour la conduite de systèmes (JFPDA 2017)*, 2017.
- [8] Vilchis Medina, Pierre Siegel, and Andrei Doncescu. Autonomous aerial vehicle based on non-monotonic logic. In *3rd International Conference on Vehicle Technology and Intelligent Transport Systems (VEHITS)*, page 6p, 2017.