



IVAN LLOPIS BELTRAN

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Profile

My background is in Mechanical Engineering with a specialization in Control Systems. My passion is centered in Machine Learning and Service robotics. I want to discover more about the amazing world of self-driving cars. My goal is to grow as a person and as a professional, every day.

Education

Master of Science in Engineering Degree, Civilingenjör in Control and Automation

2017 – 2019

Lund University, Sweden

Subjects included: Real-time systems, Applied mechatronics, Applied Machine Learning, Applied Artificial Intelligence (Starting January 2019), Multivariable control, Nonlinear control and servo systems, Project in automatic control, System Identification, Predictive control. This education gave me an understanding of different strategies of control systems, and how they are related to mechatronics systems and AI.

Master's Degree in Industrial Engineering

2016 – 2018

Polytechnic University of Valencia (UPV), Spain

Master's degree in Engineering focused on Management as well as Control and Automation.

Bachelor's Degree in Ingeniería en Tecnologías Industriales (with Honours)

2011 – 2015

Polytechnic University of Valencia (UPV), Spain

A very well respected 4-year program in Spain. Apart from its primary focus, it also provides knowledge in a wide variety of other fields, such as mechanics, electronics, manufacturing, control theory, programming, electrical engineering, and thermal machines, among others.

Work experience

Software Programmer of a Robotic System

12/2016 – 07/2017

SABIEN-ITACA, Valencia, Spain

I have programmed a social robot whose purpose was to work with patients in medical centers and with elderly people. The robot was able to collect data from the patients and the environment thanks to environment recognition. A small AI enabled user interaction and communication, as well as connection with other CPUs by means of two Internet of Things platforms.

Designer, Microfluidic Lab-on-A-Chip

02/2016 – 07/2016

Dep. of Automatic Control, Polytechnic University of Valencia (UPV), Spain

Design of a microfluidic chip for characterization of a synthetic biological circuit by means of quorum sensing of AHL-based molecular expression cells in E. Coli.

Temporary Job as Machine Operator

07/2015 – 10/2015

Globe Engineering Ltd., Elsenham, United Kingdom

CNC Milling Operator. Basic Mazak machines operation. Quality control and problem solving tasks. Packaging. Manual milling, lathe. Welding in MIG/MAG/TIG. G-code programming.

SpaceApps Challenge

04/2016

NASA

Our team got challenged by NASA to design a solution for the Jet Set Mars Challenge: a mobility solution for first operations on Mars. We designed an exoskeleton with a jetpack and HUD for mobility, and proposed a method for obtaining fuel on-site. We reached Top 25 Global Prize and Top 5 in Best Use of Hardware among 1,287 projects.

Awards