Júlia Marsal P.

Robotics Engineer

✉ Barcelona

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About Me ——

Julia is an Industrial Engineer specialized in Automatics and Robotics. Since she was 16, Julia has been working in different areas of robotics, where she has been acquiring mechanical, electronics and programming skills. First, as a robotics teacher, giving classes to children and teenagers about robots and micro controllers. Next, she gave a step forward with its acknowledgement of robotics, working in investigation centers and companies as a technical laboratory assistant and an R+I engineer so as to make different important projects with robots and learning new robotics programming, and its frameworks and tools.

Aptitudes ——

Rust

C - C++ - LINUX

ROS - GAZEBO

I2C - UART - SPI - Ethercat

PYTHON - GIT - APIS INTEGRATION

OPENCV-YOLO-SENSORS INTEGRATION
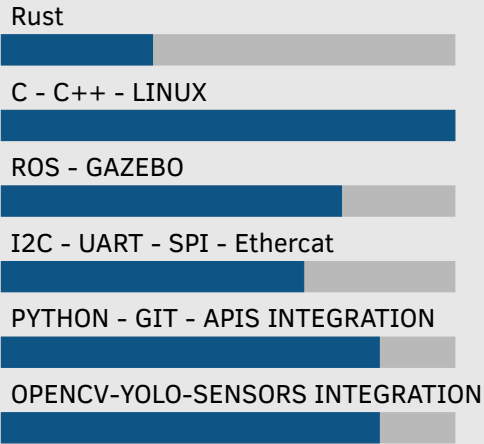
Education

Jan21 - Sep19	Master in Robotics	UVIC | Eurecat
Sept16 - Jan19	Master's degree in Industrial Engineering	ETSEIB
2011 - 16	Student Bachelor's degree in Industrial Technology Engineering	ETSEIB

Projects

July20 - Jan21 — Robotics Final Master Thesis — *Robotics Master*
The aim of this project is endowing a robot with an own intelligence to work with a person in a collaborative way in the process of making a coffee. [Link]

Feb20 - May20 — Aerial Robots — *Robotics Master*
This is the final project of the subject Aerial Robotics from the Robotics Master's Degree in Robotics. It consists of an implementation of a drone controller, a global and local planner, a state estimation using aruco tags and mission application development. [Link]

Nov19 - Feb20 — Ground Robotics Subject Final Project — *Robotics Master*
This is the final project of the subject Ground Robots from the Robotics Master's Degree in Robotics. It consists of an implementation of SLAM (move_base) in order to endow the robot with an autonomous movement, explore package in order to let the robot to explore the environment, meanwhile creates a map. [Link]

Sept - Feb16 — DarwingOP robot - Final Bachelor's Project — *IRI-UPC*
This project was made in IRI (Institute of Industrial Robotics), with C++ language and using ROS framework so as to create environmental interactions algorithms with a USB cam and tags. [Link]

Experience

Jan24 - Now — Robotics Consultant — *DTE \| IAAC*
Working as Senior Robotics Engineer, developing and maintaining code for for DTE's robotics application used in metals manufacturing, integrating with external PLC systems and other 3rd party systems and participating in an Agile team consisting of software, Q&A, and DevOps engineers.

Jul22 - Nov 23 — Robotics Software Engineer — *Near Space Labs*
Working as a Robotics Software Engineer, researching and implementing new robotics applications and functionalities for aerospace imaging capturing. CI of the robots, testing and flight data analysis.

Mar20 - Jun22 — Robotics Engineer — *Submer*
Working as a Robotics Engineer, researching and implementing new robotics applications and functionalities for the datacenters of the future.

Oct16 - Jun17 — Technical research assistant — *ETSEIB-IOC*
Establish the connection between YUMI ABB robot and a computer in order to send and receive information from the robot with the framework ROS and the YUMI's tasks based on rapid code

LANGUAGES

2014	English(C1)	Si idiomes
2011	Spanish	Native