Julián Caro Linares

Robotics Engineer, R&D, Rapid prototyping, IoT, STEM Expert

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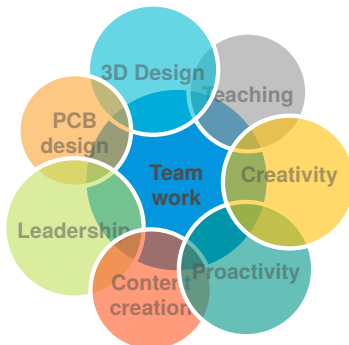linkedin.com/in/jcarolinares

Languages

English
(B2) ★★★★☆
Italian
(B2) ★★★★☆
Spanish
(Native) ★★★★★

Work Skills

Programming

Experience

2019 - 2022   **Robotics Engineer, R&D and Rapid prototyping Expert**   *NTT Disruption*

Jibo Robot: *Work as Robotics Engineer on Hardware & Manufacturing*
Work as part of the hardware team on the creation, manufacturing, and mass production of the new hardware for the robot.

Design and creation of different prototypes, from PCBs to testing of different sensors and actuators. Hardware debugging. Manufacturing process design and implementation. Programming of the software used at the factory. Participation in the different steps of the creation of the product, from prototyping to mass manufacturing, certification process and tests.

Sciroc Robotics challenge: *Hardware & Design responsible*
Development of our own architecture solution based on ROS and the Tiago robot. Programming of ROS nodes and packets. Additional hardware design, including CAD design and 3D printing of new parts for the robot.

NTT Dreamlab: *Designer of the technological ecosystem of the new office*
Design of lights, LED screens, IoT sensors, video-art and much more.

2017 - 2019   **Robotics Engineer-Rapid prototyping**   *Everis - NextGen R&D*

Jibo INC: Development of the firmware of the robot Jibo. Development of prototypes to explore new applications for the robot.

Robot Casper & Pepper: Hardware responsible of the turtle-like robot Casper to help children with Autistic spectrum. Skills/APPs creations for the humanoid robot Pepper.

Project Habität & Entity: Development of PCBs and sensors to detect persons inside an office. Development of prototypes for personal wearable assistants including the design of the schematics, PCB and shape of the product.

2017   **Robotics Engineer**   *AID Group*

Research, design, development and implementation of submarine robots like UUV, USV drones and others related projects.

2016 - 2017   **Social robots programmer**   *Casual Robots-Freelancer*

Programming of service robots like Pepper & Nano as a freelancer.

2014 - 2016   **R&D on STEM Robótics & 3D Printing**   *BQ - R&D+Education department*

Creator of prototypes in Robotics and IoT using fast prototyping platforms like Arduino and others in combination with CAD design and 3D printing. Documentation and tutorials creator in online platforms and publishing houses. Trainer in university courses and moocs.

Education

2014/5-2019 **Master in Robotics and Automation** Universidad Politécnica de Madrid

Classes passed on 2014/15. Development of the thesis, including a paper publication at IROS 2018, in parallel to my professional career about bio-inspired robots and hybrid control systems using *Open Source* FPGAs.

2011 - 2012 **Ingegneria Elettronica e Ingegneria dell'Automazione**
Politecnico di Milano, Italia

I made an Erasmus exchange program in Milan, Italy, where I studied Electronics and Automation at Politecnico di Milano. Beyond the studies, I learnt Italian and improved my English, making new friends around the world and discovering different cultures and traditions.

2008 - 2014 **Degree in Electronics and Industrial Automation**
Universidad Carlos III de Madrid

I took a degree in Electronic and Automation at Universidad Carlos III de Madrid, where I studied electronics, industrial processes, programming and use of automatas and robots.

Experience as Trainer/Teacher

- Teacher inside the Master of Robotics, Programming and 3D printing, Universidad Internacional de la Rioja-UNIR.
- Coauthor of the three textbooks "Programación de las Cosas", being responsible of the creation of the projects to realice by the students. Set ventiuno, Santillana.
- Official Training for teachers of the Community of Madrid in 3D printing and robotics for more than 5 years.
- Teacher in design and 3D printing in different training companies.
- Collaboration with the education department Everis-CLOQQ doing workshops about robotics and creativity on different companies & foundations.

Other info and soft-skills

- Passionate about the *Maker* and *Open Source* movement, creating different projects for fun or as a way to help other people and increase diversity inside the IT world.
- Participation in multiple technological events as Maker faires across Spain and Maker Faire Rome, showing projects, doing workshops and different talks. Active member of the spanish/latin Maker communinity and always trying to organice and create new events for good.
- Alumni member of the non-profit student organization Erasmus Student Netwrok (ESN) at a local, national, and European level. Constant contact with international students, organization skills for cultural events and trips.
- Small *Community Manager* skills making social media campaigns.
- Amateur photographer. Amateur knowledge about photography, Reflex and manual cameras and photography edition.
- Thirteen years practicing basketball at the federated and university level: CB Leganés and Carlos III Selection of Madrid.