



# DAVID VELASCO GARCIA

INDUSTRIAL ENGINEER. ROBOTICS  
AND AUTOMATION ENGINEER

## PROFILE

Engineer with 4+ years of work experience in various fields like robotics, automation, software develop, CAD design ...

## CONTACT

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## SKILLS

Ability to work under pressure.  
Proactivity and creativity, adaptability to changing problems.  
Teamwork. Problem resolution.  
Management and decision making.  
Learning ability and motivation.  
Ability for leadership and time management. Communication skills.

## SOCIAL



[@davidvelascogarcia](https://github.com/davidvelascogarcia)

## PROFESSIONAL EXPERIENCE

### CONSULTANT/ENGINEER @ ALTRAN

April 2021 – Actual

Telecommunications and Services Division.

### DEVELOPMENT ENGINEER @ ROBOTICSLAB

December 2017 – October 2020

Development engineer in robotic systems and process automation.

Implementation of solutions in assistance tasks to ERL and SciRoc.

I've worked on national and international projects managing TIAGo robotics system.

I have developed solutions in areas like Computer Vision, Speech Recognition, TTS, Navigation, Manipulation of objects ...

### TECHNICIAN ENGINEER @ ASROB

September 2017 – October 2019

Technician and operator in printing and 3D printers. Design and implementation of UAVs. ARCADE systems algorithm development engineer.

### TECHNICIAN ENGINEER @ FORMULA UC3M

September 2017 – October 2018

Technical engineer for the design of electronic control systems for Formula cars.

Electronics department.

### I+D+I ENGINEER @ SCIENCE PARK

September 2016 – October 2017

Investigation and development. Gesture Recognition Module for Robot Control in Assistance Tasks, research in Speech Recognition, Computer Vision, and robotics.

### WEB DESIGNER @ FREELANCE

September 2012 – October 2016

## ACADEMIC DATA

### MSC. D. ROBOTICS AND AUTOMATION @ CARLOS III OF MADRID UNIVERSITY

September 2020 – May 2021

### MSC. D. INDUSTRIAL ENGINEERING @ CARLOS III OF MADRID UNIVERSITY

September 2018 – January 2021

Thesis, Design and Implementation of Solutions for Attention to People with the TIAGo Robot.

### B. D. INDUSTRIAL TECHNOLOGIES ENGINEERING @ CARLOS III OF MADRID UNIVERSITY

September 2012 – May 2018

Intensification in Automation and Electronics. Obtaining the Entrepreneur Seal and Intensification. Finalist TFG Emprande awards, Semifinalist Gran Canaria awards.

Publication DRT4ALL 2017, International Congress on Technology and Accessibility.

Thesis, Gesture Recognition Module for Robot Control in Assistance Tasks.

### INNOVATION AND ENTREPRENEURSHIP SPECIALIST (MBA) @ SCIENTIFIC PARK, CARLOS III OF MADRID UNIVERSITY

September 2018 – July 2018

## CODING

C++ / C# / Python / Markdown



C / Java / Swift / HTML / CSS / Javascript



RAPID / SFC / Contacts / Arduino



## PORTFOLIO

I would like to introduce some examples of public projec developed:

- [tensorflowLiteDetection:](#)  
Multipurpose classifier detector implementation with support to network integration.
- [facialAnalysisLiteDetection2D:](#)  
Facial analysis implementation with support to network integration.
- [speechRecognitionTranscriber:](#)  
Implementation of video/audio multilanguage transcriber to PDF.
- [leapMotionRobotController:](#)  
Gesture controller to robotics systems with support to network integration. [Video.](#)

If you wish more public projects, please visit [@davidvelascogarcia](#)



## SKILLS

### PROGRAMMING @ MULTIPURPOSE

C, C++, C#, Python, Java, Swift and Bash.

### PROGRAMMING @ WEB

HTML, CSS, Javascript and Markdown.

### PROGRAMMING @ AUTOMATION

RAPID, SFC, Contacts and Arduino.

### QA, CONTROL AND CI @ MULTIPURPOSE

Robotframework, Selenium, Git, SVN, Github, Jira and Travis CI.

### 3D AND CAD @ MULTIPURPOSE

Solid Edge, Solid Works, FreeCAD, Cura, Repetier ...

### ENGINEERING @ MULTIPURPOSE

Matlab, Ansys, Fluent, Abaqus, ABB, Symatic ...

### WRITTING @ MULTIPURPOSE

Microsoft Office, LibreOffice, LaTeX

### OS @ MULTIPURPOSE

Microsoft Windows, Linux, OS X, Android and IOS.

## LANGUAGES

### SPANISH

MOTHER LANGUAGE

### ENGLISH

SECOND LANGUAGE

Advanced, C1. Stay in Dublin, Ireland 4 months, Stay in Milton Keynes, UK, 2 weeks.

Certificate ESOL C1 @ TRINITY COLLEGE DUBLIN

Certificate ESOL B2 @ UNIVERSITY OF CAMBRIDGE

Certificate ESOL B2 @ MENÉNDEZ PELAYO INTERNATIONAL UNIVERSITY

## COMPLEMENTARY STUDIES

Complementary studies through the completion of more than 30 MOOC courses from the main national and international universities, through the EDX, Coursera, Miriada X, Microsoft Virtual Academy, Matlab Academy and Udemy platforms. Attached sample list, complete list available in: [@davidvelascogarcia](#) LinkedIn.

#### Software Engineering:

- C, C++, C#, Python, Java, Swift.
- Databases Fundamentals
- Networks Fundamentals.
- Cybersecurity: Countermeasures
- Web develop and analyze.
- Cognitive Compute.
- Develop mobile apps.
- Internet of Thing (IOT).
- Cloud Computing.
- Machine Learning.

#### Multipurpose Engineering:

- Solid Edge, Solid Works, FreeCAD.
- Design airplanes, UAVs.
- Raspberry PI, Arduino.
- Solar Energy.
- Excel in Engineering.
- Probability.
- Management Information Systems.