

David Mota Gassó

Date of birth: 4th February 1995

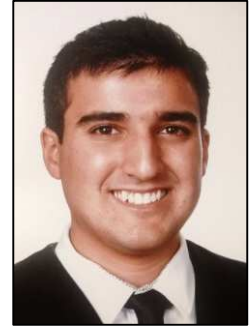
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Education

Jan. 2017 - Feb. 2019

Master's Degree in Aerospace Engineering

*School of Industrial, Aerospace and Audiovisual Engineering
Universitat Politècnica de Catalunya (UPC) (Barcelona, Spain)*

Sept. 2012 - Jan. 2017

Bachelor's Degree in Aerospace Technology Engineering

*School of Industrial, Aerospace and Audiovisual Engineering
Universitat Politècnica de Catalunya (UPC) (Barcelona, Spain)*

Personal advancement

- **Course of Aerial Robotics** (Coursera, 2018) - University of Pennsylvania
- **Drone pilot (< 25 kg)** (currently coursing, finishing in March) - Hemav S.L. - AESA

Professional experience

Jul. 2018 - Feb. 2019

Master's Thesis intern (computer vision, control and guidance)

HEMAV S.L. (Barcelona, Spain)

- Development of the Master's Thesis: *Study of the algorithm for the autonomous landing of a drone in maritime rescue operations*. This project is being developed in collaboration with the NGO Proactiva Open Arms. It is about how to design an algorithm to make the drone return and land autonomously on the main rescue boat after having looked for refugees at sea.
- Choice and justification of the most appropriate drone and its landing system for this kind of mission.
- Use of Python (*OpenCV* and *dronekit*) to implement computer vision, control and guidance algorithms.

Jul. 2017 - Jan. 2018

Aerospace Engineer in the Office of Airworthiness

and Oct. 2016 - Jan. 2017

Center Vol Maintenance S.L. (Airport of Girona, Spain)

- Development of the projects *Monitoring Data Unit MDU001-02* and *MDU002*, two instruments that collect data regarding the behaviour of the aircraft in flight: position, altitude, manifold air pressure, engine rpm, etc. The first one can be installed in several Piper and Cessna models and the second one in several Bell Helicopter, Airbus Helicopters, Robinson Helicopter Company and Leonardo S.p.A. models. Working with EASA for the completion of the project.
- Development of a *Production without Production Organisation Approval* manual.
- Working with EASA CS-23, EASA CS-27, EASA Part 21 and EASA CS-ETSO regulations.

Curriculum Vitae

Jul. - Sept. 2016

Internship

Center Vol Maintenance S.L. (Airport of Girona, Spain)

- Development of the Bachelor's Thesis: *Study for the approval of modifications to an approved aeronautical design*. It is about how to get the approval from EASA to install the Monitoring Data Unit MDU001-02 in several Cessna and Piper models.
- Development of an APDOA Manual for the company.
- Working for the first time with EASA Part 21 and with EASA CS-23.

Additional professional experience

Jul. - Aug. 2014 to 2015

Receptionist - *Eurocamping campsite (Costa Brava, Spain)*

Jul. - Aug. 2011 to 2013

Watchman - *Eurocamping campsite (Costa Brava, Spain)*

Languages

- **Spanish:** Native
- **Catalan:** Native
- **French:** Fluent - Level B2 (DELF, Alliance Française)
- **English:** Fluent - Level B2 (First Certificate in English, Cambridge English Language Assessment); currently coursing Level C1
- **German:** Fluent - Level B2 (fünfter Kurs, Offizielle Sprachschule, EOI)
- **Italian:** Fluent - Level B2 (CELI, Università per Stranieri di Perugia)

Awards

- 2012 **Finalist** at the *Awards for the best high school research paper* of the *Universitat Pompeu Fabra (Barcelona)* for the project *ROBOvid, the vigilant robot*
- 2011 **Grant award** *Beca Botet i Sisó* for the *high school research paper* of the *Universitat de Girona (Girona)* for the project *ROBOvid, the vigilant robot*

Other skills

I am a hard-working person, effective and respectful. I am keen to adapt to new environments and to work in a group. I count on the following computer skills:

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|--------------------|---------------|---------------|
| - Microsoft Office | - Arduino IDE | - Solid Works |
| - Matlab | - Simulink | - Ansys |
| - AutoCAD | - ETABS | - C++ |
| - Python | - OpenCV | - Dronekit |

Hobbies

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|-------------------------|--------------|-------------------------------------|
| - Singing Opera (Tenor) | - Basketball | - Drones |
| - Learning languages | - Travelling | - Chess and basketball competitions |
| - Robotics | - Astronomy | |

March 4th, 2019