

## CURRICULUM VITAE



### PERSONAL INFORMATION

Name  
Address  
Telephone  
E-mail

**ROPERO PASTOR, FERNANDO**  
**7, AMAPOLA, 28813, TORRES DE LA ALAMEDA, MADRID, ESPAÑA**  
**cell. +34 697.874.337**  
**Fernando.ropero@uah.es**

Nationality  
Date of birth

Spanish  
MAY 28, 1992

### WORK EXPERIENCE

- Dates
- Name and address of employer
  - Type of business or sector
  - Occupation or position held
- Main activities and responsibilities

February 2019 – Today  
Delft University of Technology, Delft, The Netherlands  
Delft Center for Systems and Control Department  
Visiting Researcher  
Scientific research in control theory applied in robotics

- Dates
- Name and address of employer
  - Type of business or sector
  - Occupation or position held
- Main activities and responsibilities

February 2016 – April 2018  
University of Alcalá, Alcalá de Henares, Spain  
Department of Computer Engineering  
Researcher  
Scientific research focused on the PhD Program in Space Research and Astrobiology

- Dates
- Name and address of employer
  - Type of business or sector
  - Occupation or position held
- Main activities and responsibilities

July 2016  
ORBITAL Critical Systems, San Fernando de Henares, Spain  
Aeronautics / Space / Railways / R & D + I  
Software Developer  
Design and development of a database system

- Dates
- Name and address of employer
  - Type of business or sector
  - Occupation or position held
- Main activities and responsibilities

September 2014 – September 2015  
University of Alcalá, Alcalá de Henares, Spain  
Department of Computer Engineering  
Research Assistant  
Scientific research

- Dates
- Name and address of employer
  - Type of business or sector
  - Occupation or position held
- Main activities and responsibilities

May 2014 – October 2014  
Witzenmann Española S.A, Polígono Industrial del Henares, Guadalajara, Spain  
Industrial Manufacturing  
System Technician  
Designer and developer of the database systems

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|---|--|
| <ul style="list-style-type: none"> <li>• Dates</li> </ul>   | June 2013 – May 2014   |
| <ul style="list-style-type: none"> <li>• Name and address of employer <ul style="list-style-type: none"> <li>• Type of business or sector</li> <li>• Occupation or position held</li> </ul> </li> </ul> | Witzenmann Española S.A, Polígono Industrial del Henares, Guadalajara, Spain<br>Industrial Manufacturing<br>Software Developer |
| <ul style="list-style-type: none"> <li>• Main activities and responsibilities</li> </ul>  | Help-desk  |

## EDUCATION AND TRAINING

|  |   |
|--|---|
| <ul style="list-style-type: none"> <li>• Dates</li> </ul>  | 2016-Today  |
| <ul style="list-style-type: none"> <li>• Name and type of organization providing education and training</li> </ul> | University of Alcalá, Alcalá de Henares, Spain  |
| <ul style="list-style-type: none"> <li>• Principal subjects/occupational skills covered</li> </ul>                 | Space science, technology and engineering and space projects management   |
| <ul style="list-style-type: none"> <li>• Title of qualification awarded</li> </ul>                                 | Pursuing the PhD Program in Space Research and Astrobiology   |
| <ul style="list-style-type: none"> <li>• Dates</li> </ul>  | 2015-2016   |
| <ul style="list-style-type: none"> <li>• Name and type of organization providing education and training</li> </ul> | University of Alcalá, Alcalá de Henares, Spain  |
| <ul style="list-style-type: none"> <li>• Principal subjects/occupational skills covered</li> </ul>                 | Space science, astrophysics, high-energy physics, space technology and engineering, space project management - Experimental thesis: "An autonomous controller application for exploration unmanned aerial vehicles" |
| <ul style="list-style-type: none"> <li>• Title of qualification awarded</li> </ul>                                 | Master's degree in science and Technology from Space  |
| <ul style="list-style-type: none"> <li>• Dates</li> </ul>  | 2010–2015   |
| <ul style="list-style-type: none"> <li>• Name and type of organization providing education and training</li> </ul> | University of Alcalá, Alcalá de Henares, Spain  |
| <ul style="list-style-type: none"> <li>• Principal subjects/occupational skills covered</li> </ul>                 | Bachelor's in computer science engineering – Experimental thesis: "Development of a ground control station for autonomous controllers".   |
| <ul style="list-style-type: none"> <li>• Title of qualification awarded</li> </ul>                                 | Computer Science Engineer   |

|   |   |
|---|---|
| <b>PERSONAL SKILLS<br/>AND COMPETENCES</b>  |   |
| MOTHER TONGUE   | <b>SPANISH</b>  |
| OTHER LANGUAGES   |   |
| <ul style="list-style-type: none"> <li>• Reading skills</li> <li>• Writing skills</li> <li>• Verbal skills</li> </ul> | <b>ENGLISH</b><br>INDEPENDENT USER<br>INDEPENDENT USER<br>INDEPENDENT USER  |
| <b>ORGANIZATIONAL SKILLS<br/>AND COMPETENCES</b>  | <ul style="list-style-type: none"> <li>- Tutor of 2 Bachelor's students and 1 Master's student</li> <li>- Organization member of the 6th International Conference on Space Mission Challenges for Information Technology (SMC-IT), 2017.</li> <li>- Participation of funded research projects: <ul style="list-style-type: none"> <li>2016 Fall detection through triaxial accelerometer in remote care environment for dependece", University of Acalá (UAH2015/00297/001), Principal Researcher: Dr. David Fernández Barrero</li> <li>2017 "Robotics Simulation" University of Alcalá, Principal Researcher: Dr. David Fernández Barrero.</li> <li>2017 "Robotic simulation for the teaching of artificial intelligence", University of Alcalá (UAH2016/00351/001), Principal Researcher: Dr. David Fernández Barrero.</li> </ul> </li> </ul> |
| <b>TECHNICAL SKILLS<br/>AND COMPETENCES</b>   | <b>MAIN RESEARCH TOPICS</b> <ul style="list-style-type: none"> <li>- Unmanned aerial and ground vehicles engineering.</li> <li>- Multi-Robot Cooperation and Coordination.</li> <li>- Collective intelligence and swarm behaviors in multi-agent systems.</li> <li>- High-level modelling in mission planning</li> <li>- Autonomous controllers oriented for robotic cooperation</li> <li>- Computational Geometry algorithms in multi-robot paradigms</li> <li>- Combinatorial optimization methods</li> </ul><br><b>SCIENTIFIC PUBLICATIONS</b> <ul style="list-style-type: none"> <li>- Author or co-author of 8 journal articles in scientific publications on original investigations.</li> </ul>  |
| <b>OTHER SKILLS<br/>AND COMPETENCES</b>   | <b>COMPUTER SCIENCE</b> <ul style="list-style-type: none"> <li>- Good level of knowledge of computer programming.</li> </ul>  |
| <b>DRIVING LICENSE</b>  | Category B  |

Alcalá de Henares, March 27<sup>th</sup>, 2020