



# Antonio José Romero Barrera

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## ABOUT ME

I am a young, enthusiastic individual with a keen interest in artificial intelligence, renewable energy infrastructure, programming, and the automotive industry. My passion for these fields has driven me to pursue various projects and learning opportunities, such as developing my own AI models and programming projects, researching renewable energy solutions, and exploring advancements in the automotive industry. I am eager to continue growing and contributing to these areas of interest in the future.

## WORK EXPERIENCE

04/11/2021 – 31/08/2023 Fuenlabrada, Spain

**ARTIFICIAL INTELLIGENCE RESEARCHER** UNIVERSIDAD REY JUAN CARLOS

Project F747. Assistant in an educational research project for the implementation of Machine Learning technologies in elementary education and secondary education and high school. Project funded by the European Union through ERASMUS +.

10/06/2017 – 10/06/2023 Fuenlabrada, Spain

**AERODYNAMICS DESIGNER & MARKETING MEMBER** Ü MOTORSPORT - URJC FORMULA STUDENT TEAM

Operations & Marketing: Marketing, Web maintenance, RRSS, blog writer & graphic designer

Aerodynamics department: Front wing designer (2017-2020), Lateral wings designer (2021), CFD & FEM analysis support (2021-2022).

15/10/2021 – 15/03/2022 Alcorcón, Spain

**ROS, AI AND WEB PLATFORM DEVELOPER** ASOCIACIÓN DE ROBÓTICA E INTELIGENCIA ARTIFICIAL JDEROBOT

Development of [Unibotics](#) web platform and JdeRobot Github repositories.

01/05/2019 – 31/05/2019 Fuenlabrada, Spain

**RESEARCH PROJECT ASSISTANT** UNIVERSIDAD REY JUAN CARLOS

Development of web with HTML for the URJC Aerospace Engineering Department.

01/05/2015 – 30/06/2015 Madrid, Spain

**ADMINISTRATIVE ASSISTANT** FRIMOX SL

## EDUCATION AND TRAINING

10/09/2023 – CURRENT Fuenlabrada, Spain

**PHD IN INFORMATION AND COMMUNICATION TECHNOLOGIES** Universidad Rey Juan Carlos

**Address** Cam. del Molino, 5, Fuenlabrada, Madrid, 28942, Fuenlabrada, Spain | **Website** <https://www.urjc.es/>

31/10/2022 – 08/09/2023 Pozuelo de Alarcón, Spain

**MASTER'S DEGREE IN ARTIFICIAL INTELLIGENCE FOR THE ENERGY AND INFRASTRUCTURE SECTOR** UNIR, Universidad Rey Juan Carlos and Universidad de Alcalá.

**Address** c/ de García Martín, 21, 28224, Pozuelo de Alarcón, Spain | **Website** <https://www.unir.net/>

**Address** Cam. del Molino, 5, Fuenlabrada, Madrid, 28942, Fuenlabrada, Spain | **Website** <https://www.urjc.es/>

## LANGUAGE SKILLS

Mother tongue(s): **SPANISH**

Other language(s):

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
<b>ENGLISH</b>	B2	B2	B2	B2	B2

*Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user*

## DIGITAL SKILLS

MATLAB | Python | ANSYS | Hiperworks | CATIA V5 | C++ | HTML5 | SolidWorks | Artificial Intelligence | Deep Learning | Metaheuristic Algorithms | LaTeX | Machine Learning | AutoCAD | Autodesk Maya | Blender | Photoshop

## ADDITIONAL INFORMATION

### PUBLICATIONS

#### **TFG: DISEÑO DE ALGORITMOS METAHEURÍSTICOS PARA EL PROBLEMA DE COLOCACIÓN DE TURBINAS EÓLICAS SOBRE EL TERRENO**

– 2023

Score: 10 (nominated for Honorable Mention).

Link <https://burjcdigital.urjc.es/handle/10115/22188>

#### **TFM: Diseño e implementación de sustratos en algoritmo CRO-SL para la distribución de aerogeneradores – 2023**

Score: 9.2.

Link <https://ebuah.uah.es/dspace/handle/10017/57962>

### DRIVING LICENCE

Driving Licence: B

### CONFERENCES AND SEMINARS

21/10/2023 – 21/10/2023 – C. Cifuentes, 5, 28021 Madrid

**Speaker Researcher - Espiral Learning Fest** Talk about FAIaS project results and example activities developed my teacher in the CAM course.

Link <https://premioespiral.org/espiral-learning-fest/>

24/01/2023 – 28/02/2023

#### **Course organizer - INTELIGENCIA ARTIFICIAL: ACTIVIDADES DIDACTICAS PARA TODAS LAS EDADES Y**

**ASIGNATURAS (ARTIFICIAL INTELLIGENCE: ACTIVITIES FOR ALL AGES AND SUBJECTS)** Organization of Educamadrid training course for teachers on how to apply Artificial Intelligence in the classroom. Course organized by URJC members of the FAIaS Project (Erasmus+) together with the Community of Madrid.

Link <https://innovacionyformacion.educa.madrid.org/node/314937>

06/09/2022 – 10/09/2022 – Círculo de Bellas Artes. C/ de Alcalá, 42, 28014 Madrid

**18th International Conference on Open Source Systems (OpenSym 2022).** I have worked as web chair and in the organizing committee of the 18th International Conference on Open Source Systems (OSS), that aims at providing an international forum where a diverse community of professionals from academia, industry, and the public sector, and diverse FLOSS initiatives can come together to share research findings and practical experiences. The conference is also a forum to provide information and education to practitioners, identify directions for further research, and to be an ongoing platform for technology transfer, no matter which form of FLOSS is being pursued.

Link <https://oss2022.github.io/OrganizationCommittee.html>

07/11/2022 – 20/11/2022

**Speaker Researcher - XXII Madrid Science and Innovation Week** Speaker at the activity "Happy Hour on Artificial Intelligence in schools" of the FAIaS project at the XXII Madrid Science and Innovation Week.

**Link** <https://eventos.urjc.es/89463/detail/happy-hour-sobre-inteligencia-artificial-en-colegios.html>

01/11/2021 – 14/11/2021

**Speaker Researcher - XXI Madrid Science and Innovation Week** Speaker at the activity "Happy hour on Learning Artificial Intelligence in Primary and Secondary School" by the FAIaS project in the XXI Madrid Science and Innovation Week.

**Link** <https://eventos.urjc.es/69402/detail/happy-hour-sobre-aprender-inteligencia-artificial-en-primaria-y-secundaria.html>

## **COURSES AND CERTIFICATIONS**

01/05/2022 – 31/12/2022

### **CURSO DE PROGRAMACIÓN EN PYTHON (75h)**

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Issued by: UNIR.

04/10/2021 – 20/10/2021

### **CURSO BÁSICO DE DISEÑO CON CATIA V5 (12h)**

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Issued by: Universidad Rey Juan Carlos.

15/07/2021 – 30/07/2021

### **INTRODUCCIÓN Á SIMULACIÓN FEM Y CFD CON ANSYS (70h)**

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Issued by: Universidade de Vigo.

04/07/2021

### **MATLAB Onramp**

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Issued by: Mathworks.

URL: <https://matlabacademy.mathworks.com/progress/share/certificate.html?id=29ddf0ba-51a7-4f71-81cc-9eaf5cfdc7da>

09/2021

### **Fundamentos de Marketing Digital (40h)**

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Issued by: Google Actívate.

ID Credential: XKT N2X C7H

01/2019

### **CURSO DE PYTHON - AeroPython (15h)**

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Issued by: Universidad Rey Juan Carlos.

09/2016

### **Creación de Videojuegos 3D Nivel intermedio (250h)**

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Issued by: SEIS COCOS Technical School.

09/2016

### **Creación de Videojuegos 3D Nivel básico (150h)**

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Issued by: SEIS COCOS Technical School.

09/2016

### **Creación de personaje para videojuegos con 3DS Max (200h)**

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Issued by: SEIS COCOS Technical School.

05/2016

### **Taller de Animación Digital 2D (50h)**

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Issued by: Ayuntamiento de Fuenlabrada.

01/2016

### **Curso teórico-práctico de ilustración (8h)**

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Issued by: Ayuntamiento de Fuenlabrada.

01/2015

**Robots y Videojuegos en las aulas: Scratch y Arduino para profesores (25h)**

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Issued by: Miríadax.

01/2014

**Especialista TIC en Modelado y Animación 3D en Autodesk Maya (300h)**

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Issued by: Euroinnova International Online Education.

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