Universidad
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To whom may concern,

If you are reading this letter, it is probably because you are looking for a professional to fill a vacant position in your company/institution. From my side, I am grateful for the time to read my words in this cover letter that I dedicate to tell about my professional trajectory (I will try to make it an enjoyable read).

Regarding my academic career, I am an Spanish researcher graduated in a Bachelor's degree Aerospace Engineering (URJC) specialized in Aerospace Vehicles with an inter-university Master's degree in Artificial Intelligence for the Sector of Energy and Infrastructures (URJC, UAH, UNIR). While I was pursuing my university studies, I worked as technical researcher for 2 years in the Department of Telematics and Computer Systems (GSyC) at URJC, in an ERASMUS+ project called 'Fostering Artificial Intelligence at Schools' (FAIaS), supervised by the principal research, professor Gregorio Robles Martínez. Main goal of this project was to promote the use of AI in elementary and secondary education through the development of example activities and a Machine Learning platform (LearningML). All of this work was carried out with the collaboration of some international institutions that made up part of the project: Vrije Universiteit Brussels, Theatro Circo de Braga and CollectiveUP. Working on the FAIaS project was an amazing opportunity to which I will always be indebted and grateful to Gregorio.

Doing extracurricular activities in student associations during your university studies is a good method to perform your professional skills and meet friends. Since my first year of university, I entered as aerodynamics and marketing member in the Formula Student team of the URJC, Ü Motorsport. I met some nice people there and they helped me to learn engineering CFD/FEM analysis and design programs such as ANSYS package, Solidworks, CATIA or Altair Hyperworks. I was member of the team from 2017 to 2022.

I always wanted to learn ROS, I love robotic engineering since I was a child but the life carried me through another path. As curricular internship I had the chance to enter for 6 months in JdeRobot project of the Robotic Software Department as intern, supervised by the professor José Mª. Cañas Plaza, to learn and help in the development of a ROS web page platform (Unibotics / Robotics Academy) that it allows the users to launch a ROS environment through a navigator interface and Docker containers.

Currently I am pursuing my Ph.D studies at URJC in the research line of 'Optimization and processing of information in communications, bioengineering and transport', more specifically in metaheuristic optimization oriented to improve the performance of renewable energies, following the research started in my bachelor's and master's thesis (both proposed to honourable mention).

During my Aerospace studies, DLR was one of the reference European institutions that every student of my class had in mind when you asked them where would they like to work after the university, and it was not different in my case. Despite others preferred to go to work in the private sector, I chose the academic research way doing a non-stipend Ph.D with a topic I love such as wind energy optimization and with directors in whom I have confidence. It would be a pleasure to have the opportunity to collaborate with DLR doing a doctoral stay or to be part of any of the DLR's research centers at some point.

Thanks for your time. Sincerely yours,

Signed by Antonio José Romero Barrera with a certificate issued by FNMT

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