

Declaration of originality

I declare under my responsibility that the Project presented with the title **NUMERICAL SIMULATION OF BUS EVACUATION USING PATHFINDER** at the ICAI School of Engineering of the Comillas Pontifical University in the academic year 2025/2026 is of my authorship and has not been presented previously for other purposes. The Project is not plagiarised from any other, either totally or partially, and the information that has been taken from other documents is duly referenced.

Use of Artificial Intelligence¹

I declare under my responsibility that (indicate the correct option):

☐ I have not used Artificial Intelligence in the preparation of this document.

☒ I have used Artificial Intelligence in the preparation of this document and/or Annex B under the conditions allowed by Comillas Pontifical University, i.e. applying Level 2 of the Perkins et al. (2024) Assessment Scale: "AI can be used for pre-task activities such as brainstorming, description and initial research. This level focuses on the use of AI for planning, synthesising and generating ideas, but assessments should emphasise the ability to develop and refine these ideas independently". Specifically, Artificial Intelligence has been used to:

AI has been used to support the initial organisation of ideas and the structuring of the chapters and sections of the document, to discuss the approach of the analysis, such as how to compare the different configurations and scenarios and to conduct preliminary research on specific topics. It has also been used to improve the formal quality of the academic writing in English and to review the consistency of the terminology, as it is not the author's native language.

The construction of the models in Pathfinder, the definition of the scenarios, the execution of the simulations, the analysis and interpretation of the results, the regulatory review and the final technical conclusions have been entirely developed, verified and assumed by the author. Artificial Intelligence has not been used as a substitute for the author's own technical work.

¹ This declaration refers to the use of generative Artificial Intelligence to carry out the Project documents (Annex B and Memory). It does not apply to Projects where, by their nature, artificial intelligence must be used as part of them (application of machine learning techniques, neural networks, data analysis...).

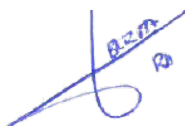


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Date: 09/07/2026

Authorisation for Project delivery

Thesis supervisor



Signature: Borja Rengel Darnaculleta

Date: 14/07/2026