



Universidad Europea

NEWSLETTER  
UE STEAM  
SCHOOL

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ESCUELA DE ARQUITECTURA,  
INGENIERÍA, CIENCIA Y  
COMPUTACIÓN - STEAM



UE  
STEAM  
SCHOOL



NEWSLETTER



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## PROSPECTIVE

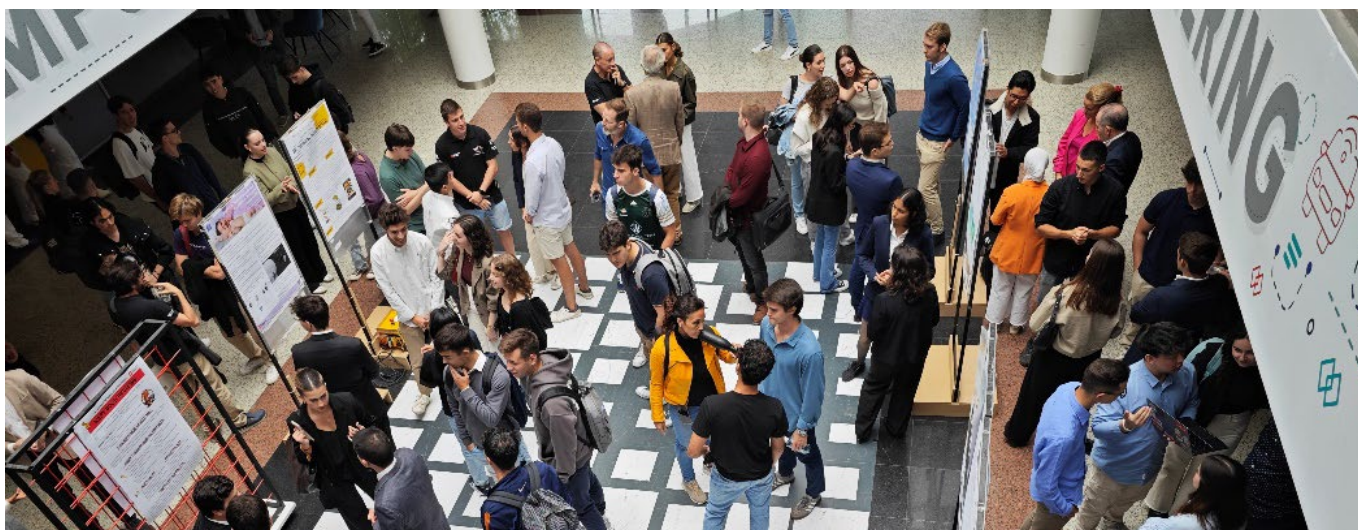
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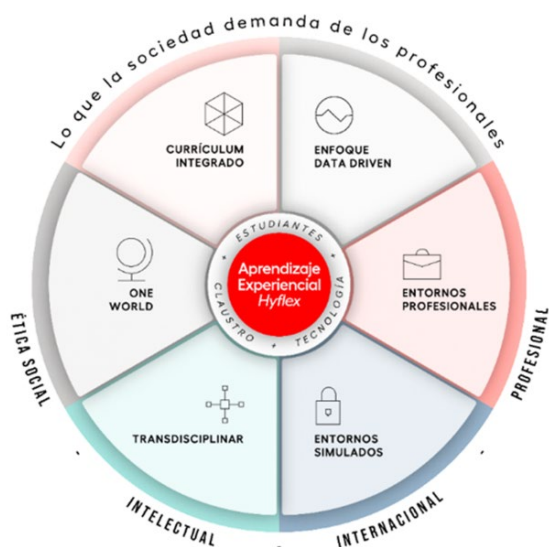
## CELEBRATION OF THE XII UE STEAM SCHOOL AWARDS. THE ACADEMIC MODEL AND PBL METHODOLOGY PARTY

Last Wednesday, September 25, the XII edition of the UE STEAM SCHOOL AWARDS was held with a very special event, accompanied by a jury of more than 20 leading companies in the different award-winning disciplines, and with the auditorium with full capacity between students, teachers and guests.

The categories corresponded to the six pillars of the Academic Model of the Universidad Europea: Simulated Environments (learning in safe environments, with different levels of complexity and fidelity, seeking the maximum approach to the real world), Professional Environments (training, adapted to the reality of work, guarantees a connection with the professional world from the beginning of studies),

Integrated Curriculum (learning in which the student must integrate knowledge and skills, and interrelate concepts and areas of action), Transdisciplinary (enriches their training experience and prepares them for the reality of the professions, where interprofessional collaboration becomes an essential value), Artificial Intelligence and Data-Driven Approach (continuous inquiry and critical thinking are interwoven in the model, to develop in the student a clear research concern), and Vision One World (prepares them to be the best professionals in their field of study, contributing to training global and responsible citizens). The awards served to pay tribute and put in place

## XII STEAM School Awards





value the work, talent and dedication of the students and teachers of our School, who have opted for the Project Based Learning methodology over the years. The event, enlivened by a string quartet, allowed students and teachers to dialogue with the companies

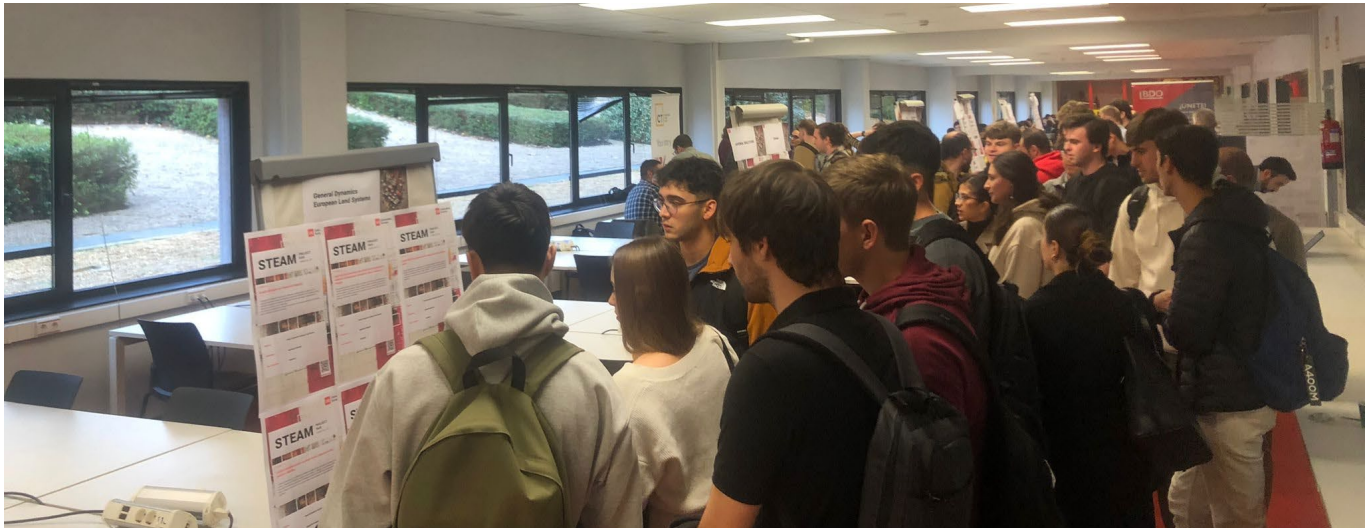
during the exhibition of the posters of their projects, reserving for the auditorium the projection of the summary videos and awards ceremony by categories. The winning projects in the categories were:

Pillar	Project Title	Degree
Integrated Curriculum	DESIGN AND CONSTRUCTION OF AN AUTOMATED MECHANICAL SYSTEM: SCISSOR LIFT PLATFORM	Industrial Systems Engineering
Data-driven	HERA	Biomedical Engineering
Professional Environments	PREDIHOME: Prediction of the rental price and sale of homes	Master in Data Science
Simulated Environments	ANCHOR HOUSE	Fundamentals of Architecture
One World	UEM Solar	Aerospace Engineering
Transdisciplinary	Falcon Fury VR	Aerospace Engineering
Premio Popular	Greensense Technologies	Computer engineering

Emilio Ramiro, technical director of ARQUIMEA, closed the event by underlining the importance of teaching through the project-based methodology applied at the European University.

He also stressed the importance of teamwork, which is essential to address complex challenges.»





## STEAM School PROJECT FAIR

The School of Arquitectura, Ingeniería, Ciencia y Computación-STEAM has successfully concluded the STEAM Project Fair 2024/2025, an event that has brought students closer to the professional sector and has strengthened ties with companies. During the fair, 12 companies presented 24 projects that students can carry out as final degree projects (TFG) or master's degree (TFM). Among the participating companies were the Research Group Innovative Seed Lab- UEM, IMDEA Materials Institute, GRUPO OESIA, Lean Vector SRL, The Sustainability World Cup, BDO Auditores, SLP, General Dynamics European Land Systems, hackrocks, IBTICAE SL, Eonesia, HYDRA SPACE SYSTEMS, AURORA TECHNOLOGY B.V., y CT Engineering Group.

The event began in early September with the call for project proposals. Companies submitted their projects before the end of September, and in October, the School shared these proposals with the students. The meeting day was held in the collaborative study room 'Bolera' of the Villaviciosa de Odón Campus, Madrid, where companies and students were able to interact directly.

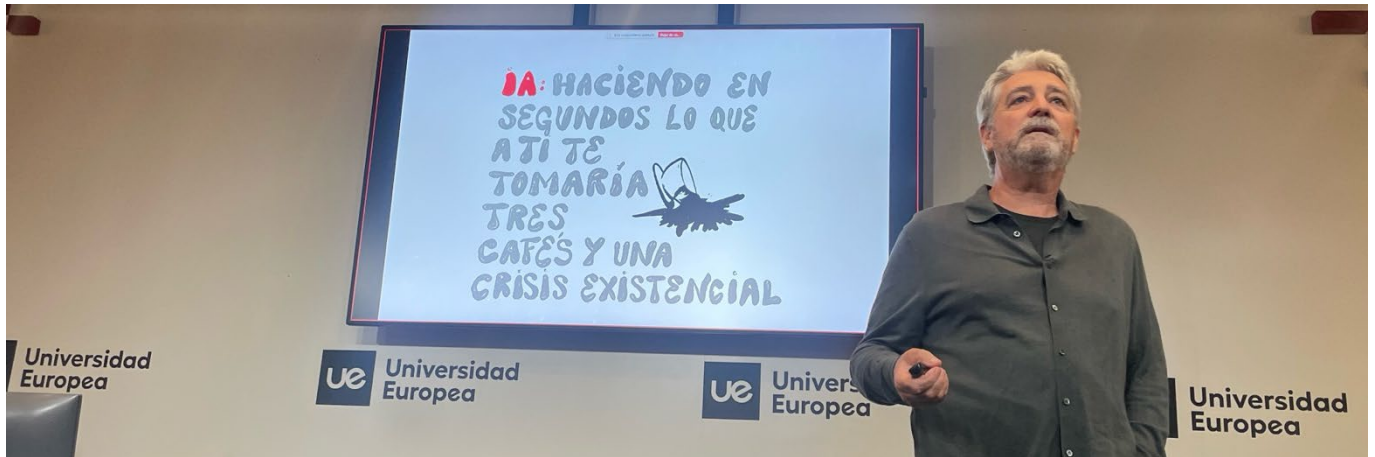
The companies selected the candidates and assigned tutors to guide the students during the development of the projects. The projects, which cover various disciplines and technologies, will be developed in two periods: from December 2024 to June 2025 for undergraduate students, and from February to September 2025 for postgraduate students.

The STEAM Project Fair 2024/2025 has been an excellent opportunity for students to gain professional experience and for companies to find young and skilled talent. This event has cemented its importance as a bridge between academia and the professional world. »



12 COMPANIES PRESENTED 24 PROJECTS THAT STUDENTS CAN CARRY OUT AS BACHELOR'S OR MASTER'S DEGREE FINAL PROJECTS (TFM)





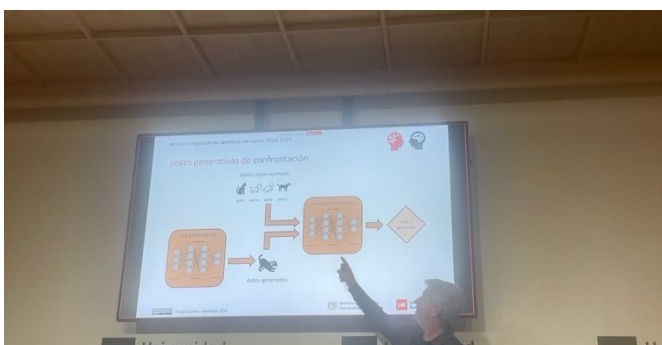
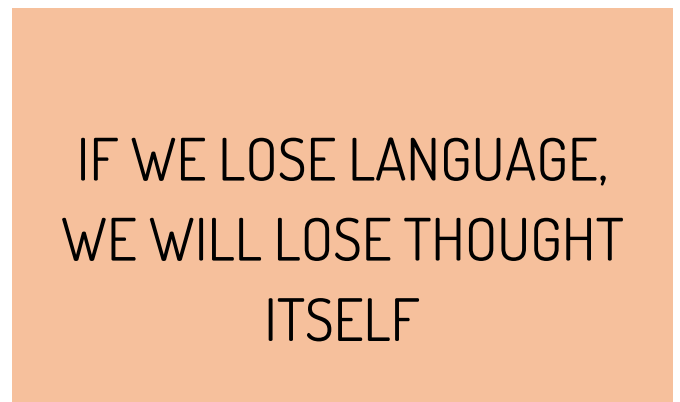
## MASTER CLASS FOR THE OPENING OF THE 24/25 ACADEMIC YEAR BY DR. FARAÓN LLORENS

On September 25, Dr. Faraón Llorens gave the keynote lecture at the opening of the 24/25 academic year, entitled "AI: Doing in seconds what it would take you three coffees and an existential crisis".

If the title was already interesting, the lecture turned out to be truly masterful. Dr. Llorens captivated an auditorium full of professors and students with wonderful explanations about the past, present, and possible future of artificial intelligence, with great technical rigor and at the same time in an extraordinarily entertaining and accessible way. The ubiquity of artificial intelligence

Dr. Llorens explained the foundation of neural networks and the existing types of machine learning (supervised, unsupervised, and reinforcement). He addressed convolutional and recurrent neural networks, explaining how adversarial networks are trained. Neural networks enable predictive analytics and generative AI tools, as do large natural language models. Multiple AI tools are a set or swarm that help improve productivity and performance.

Artificial intelligence will make some jobs disappear and many others will be created, but the vast majority will remain and will preferably be occupied by those who know how to use artificial intelligence tools. What we must never lose is language and critical thinking. »





## IV EDITION OF MADRID MOTOR STUDENT

The emblematic Jarama circuit witnessed the IV Edition of the Madrid Motor Student on October 1. The most recognized university motor event in the Community of Madrid that was once again attended by our students from the Formula EU Club. The team has more than 15 years of experience in Formula Student competition.

In this edition of the Madrid Motor Student, the Formula UEM Club has exhibited, along with 12 other teams, the prototypes they have created applying their engineering knowledge to more than 500 secondary and high school spectators.

The members of the Club have been able to showcase the latest innovations in their vehicle and demonstrate the performance of their FUEM XVI on the track.

These events are a great opportunity for students from different universities to share their experiences and learn from each other. Thanks to the Official College of Graduates and Industrial Technical Engineers of Madrid for making it possible. »

link » <https://universidadeuropea.com/noticias/club-formula-uem-participa-madrid-motor-student/>

## XEVI PUJOLAR'S VISIT TO THE SCHOOL

On October 8th, the current Racing Director of Stake F1 Team KICK Sauber, Xevi Pujolar, offered a master class to the members of the Formula UEM Club and made a visit to the School's facilities, during which the students were able to show them their prototype and discuss their concerns with it.

Montoya, Ralf Schumacher, Marc Gené, Weber, Wurz, Nakajima, Maldonado, Vergné, Verstappen, Leclerc, Raikkonen o Bottas, have been some of the drivers with whom Xevi Pujolar has worked in his 23 seasons in Formula 1.

Xevi Pujolar's visit to the European University was a unique experience for the members of Formula UEM, who have had the opportunity to learn first-hand from one of the references in the elite of Formula 1.

This meeting represents a great opportunity for all the students who are part of this multidisciplinary team, where future engineers and students from various careers share their passion for motorsport. Being able to exchange ideas with a professional of your stature not only expands your technical knowledge, but also opens doors to possible career opportunities. »



FORMULA 1 IS A VERY SPECIFIC INDUSTRY IN WHICH THERE ARE ONLY 10 TEAMS WORLDWIDE AND EACH CAN ONLY HAVE 58 OPERATIONAL PEOPLE

link » <https://universidadeuropea.com/noticias/escuela-steam-recibe-xevi-pujolar/>





## SUSTAINABILITY, A CENTRAL AXIS IN THE STEAM ACADEMIC THINK TANK

On 3 October, the Academic Think Tank was the scene of a day of reflection and debate dedicated to the integration of sustainability in education and academic assessment. During the conference, it was highlighted that in Spanish universities sustainability is still in a development phase compared to other regions such as the Anglo-Saxon world, where there are outstanding examples of good practices. The need for comprehensive diagnostics, such as carbon footprint calculation, was underlined to better understand the current situation and plan effective strategies. The interventions highlighted the importance of promoting environmental awareness from academic training, proposing to include phases of self-reflection in the projects so that students evaluate the impact of their work on the Objectives of Sustainable Development (SDGs).

The creation of teaching guides and awards that encourage projects with sustainable approaches was also suggested. Another key issue was teacher training, which is considered essential to effectively integrate sustainability into subjects. The need to sensitize teachers and provide them with adequate resources to channel students' energy and creativity was emphasized.

The conference concluded with a consensus on the urgency of establishing clear and realistic metrics that allow evaluating the impact of academic projects on sustainability and linking these initiatives with companies and the community. Proposals, such as the creation of a student club and the inclusion of sustainability in evaluation indicators, marked significant progress towards integrating sustainability into STEAM programmes. »



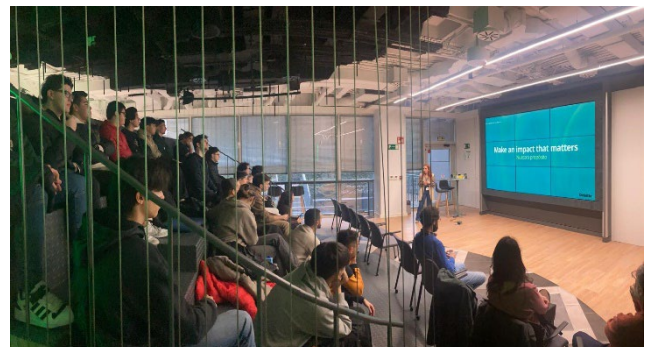
## SPONSORSHIP OF TOFUCONF

Last Saturday, December 14, the STEAM School participated as a sponsor in TofuConf2024. During the event, which was attended by more than 100 people from the world of software development, speakers such as Elena Guidi (SEAT Code), Ángeles Vazquez (Eventbrite), Carlos Azaustre (UEM), Carmen Ansio (LottieFiles), Silvia España (iOS Developer), Manuel S. Lemos (SincroLab), Nicolás Patarino (Eventbrite) and Paola García (StressTech.io) participated as speakers. A solidarity event, in which all the proceeds were donated to sanctuaries and associations that rescue animals. »

## VISIT TO DELOITTE

In December, a group of students from Deloitte's Bachelor's Degree in Cybersecurity and Bachelor's Degree in Computer Science visited Deloitte's EMEA Cybersphere Center (ECC). A center whose objective is the protection of the assets of clients throughout the region of Europe, the Middle East and Africa and also consists of training spaces that are part of the Deloitte Cyber Academy.

Our students have been able to understand the impact of cybersecurity on companies in the 21st century and the importance of the work of information and communications technology security professionals. »





## ARTIFICIAL INTELLIGENCE IN HIGHER EDUCATION OBSERVATORY (OIAES)

In December, OIAES of the Universidad Europea published its third report entitled "[The impact of AI on curricula and learning outcomes; Competencies and contents of current and/or future subjects](#)". This report analyzes the impact of Artificial Intelligence (AI) on curricula and learning outcomes in higher education,

highlighting the need to adapt educational skills and content to the demands of the contemporary labour market. The increasing integration of AI in various sectors has led to an increase in interest in its inclusion in academic training, which poses both challenges and opportunities for educational institutions. »

## THE MASTER'S DEGREE IN RENEWABLE ENERGIES AND THE MASTER IN INTERNATIONAL CONSTRUCTION MANAGEMENT, HIGHLIGHTED BY THE EL MUNDO 2024 RANKING

The El Mundo 2024 Ranking classifies the best master's degrees in Spain, evaluating programs in 50 areas of study. This analysis is based on 26 criteria, including the demand for the master's degree, the quality of the teaching staff, the curriculum and the results of graduates. This year, 125 online master's degrees have been highlighted. The Universidad Europea has had a remarkable performance in this ranking, with 21 of its master's degrees recognized.

In the specific case of the STEAM School, two of its Master's Degrees, the Master's Degree in Renewable Energies and the Management of the Buildings Highlighted - MBA are among the top 5 positions each in their field.

Both programs reflect the educational quality and relevance of the European University in the field of online training.

For the School, it is important that external entities know our model and the different programs in order to assess their quality and thus continue to improve continuously. The positioning of these two Master's degrees reflects this effort for excellence. »



STAND OUT IN RANKINGS SUCH AS THAT OF EI MUNDO REFLECTS THE QUALITY OF EDUCATION AND IMPROVES THE EMPLOYABILITY OF GRADUATES

link » [Ranking El Mundo 2024: los 250 mejores másters de España](#)



## MICROSOFT, TECHNOLOGY PARTNER OF UNIVERSIDAD EUROPEA IN ARTIFICIAL INTELLIGENCE

On November 11, the signing of the agreement was celebrated by which Microsoft becomes the Technology Partner of the European University in artificial intelligence. Microsoft is a technology giant that enabled the development of personal computing thanks to its operating system and its management solutions and tools, and is currently a reference in the development and use of artificial intelligence. Microsoft is going to be the best point of support to transform the Universidad Europea and promote higher education thanks to artificial intelligence. In an endearing event, which is now in our annals, Elena Gazapo, Rector of the Universidad Europea de

Madrid and Chief Academic Officer of Europa Education Group; Natalia Escobedo, General Manager for Public Sector at Microsoft Spain; and Cristina Guerrero, a brilliant graduate and student of the School. David Hurtado, Innovation Lead at Microsoft, then gave a real master class on the way in which artificial intelligence is transforming society and the workplace; As he highlighted, personal computers have evolved to become true personal assistants.

Artificial intelligence is said to be the intellectual exoskeleton that multiplies the capabilities and benefits of people and organizations. We cannot have a better technological partner than Microsoft, which will undoubtedly help us to reach, with the correct adoption of artificial intelligence, unprecedented levels of excellence. »



ARTIFICIAL INTELLIGENCE  
MUST TAKE HIGHER  
EDUCATION TO  
UNPRECEDENTED LEVELS OF  
EXCELLENCE





## THE ROYAL ACADEMY OF ENGINEERING, A STRATEGIC ALLY OF THE SCHOOL

On November 22, another unforgettable moment was experienced at the School, with the signing of a Strategic Alliance with the Royal Academy of Engineering. The event was attended by Jaime Domínguez Abascal and Javier, Pérez de Vargas Cabrero, President and General Director respectively of the Royal Academy of Engineering, in addition to Paula Gómez Lucas, a brilliant student of the School, representing the students. Jaime gave a very interesting talk on additive manufacturing with metals. After the event in the Auditorium, the traditional unveiling of the logo was held in the hall of the School, made by Jaime and Elena Gazapo Carretero, Rector of the

Universidad Europea de Madrid. A very endearing moment for all the professors and students gathered in the hall, in which the logo of the Royal Academy of Engineering already appears on the cloth of the Strategic Allies.

The Royal Academy of Engineering aims to publicize and promote engineering and its achievements in our society. It is a benchmark in the world of engineering, since its creation. This Strategic Alliance will allow the School to better align its efforts so that the training of future engineers and the competencies and skills they achieve exceed the expectations of companies and organizations. If the close collaboration with the professional sector has distinguished the School, the close collaboration with the Royal Academy and Engineering raises this relationship to unprecedented levels. »



THE ROYAL ACADEMY OF ENGINEERING, A TRUE 'PRIMUS INTER PARES'



Real  
Academia  
de Ingeniería





## HORSE STRETCHER PROJECT

María Márquez (4th year of Biomedical Engineering), Ana Sújer (4th year of Aerospace Engineering), Mathilde Panier (3rd year of Biomedical Engineering), Paula Vidal (2nd year of Industrial Engineering), Sofía Villanueva (2nd year of Biomedical Engineering) and Lucía Song (1st year of Biomedical Engineering) are the six students of the School who are working, together with the Director of the School, on the project of a system to transport anesthetized horses to the cabin where they undergo magnetic resonance imaging. An excellent multidisciplinary team that is applying systems engineering to solve the challenge posed by the Veterinary Hospital of the UEM.

Starting with the problem domain, a CONOPS was carried out and stakeholders were identified, and their requirements were congratulated. From there, possible solutions were contemplated, choosing the stretcher as the optimal one. Once the design concept was selected, the system requirements and the verification and validation strategies were addressed. The project is currently in the design phase of the stretcher. For the School it is a privilege to be able to help the Veterinary Hospital, thanks to the talent and enthusiastic effort of these six students, who solve the challenge posed by applying systems engineering. »

## 2ND WORKSHOP OF THE AI4HyDrop PROJECT AT UNIVERSIDAD EUROPEA DE MADRID

On September 27, 2024, at the Villaviciosa de Odón Campus, the Escuela de Arquitectura, Ingeniería, Ciencia y Computación – STEAM STEAM of the Universidad Europea hosted the workshop "Shaping the Future of U-Space: AI4HyDrop's 2nd Workshop on Flight Planning, Drone Detection and Airspace Design".

This event marked an important milestone in Europe-wide efforts to improve drone operations through AI-based solutions, focusing on critical areas such as airspace design, automatic flight plan approval, and drone detection and operator communication systems. Throughout the workshop, the development of optimized structures for airspace was explored, taking into account environmental and social factors, ensuring safe and efficient drone operations.

The integration of Artificial Intelligence in the automatic approval of flight missions was also discussed, enabling real-time decision-making that balances equity and environmental impact, and the deployment of advanced drone detection technologies, leveraging AI models to identify and manage non-cooperative drones in urban environments.

The workshop was a great success and brought together professionals, researchers, and enthusiasts interested in the intersection between Artificial Intelligence, urban space, and drone operations. The progress of the European AI4HyDrop project in which researchers from the School participate were presented, and lively debates were held that helped in the definition of the tasks to shape the future of airspace management. »

WORKSHOP SHAPING THE FUTURE  
OF U-Space: AI4HyDrop's 2nd  
WORKSHOP ON FLIGHT PLANNING,  
DRONE DETECTION AND AirSpace  
Design





## RIBA REVALIDATION

The School of Architecture of the Universidad Europea is proud to be one of the few institutions worldwide to hold the double recognition of the RIBA (Royal Institute of British Architects) and the NAAB (National Architectural Accrediting Board). These accreditations, the most prestigious in the Anglo-Saxon world, endorse the excellence of our programs and provide our students and graduates with unparalleled advantages when it comes to carrying out the recognition procedures to be able to practice in the United States, the United Kingdom and in the countries of the Commonwealth. In November, we received a visit from the RIBA evaluation panel to carry out an exhaustive review of our academic and

administrative. This revalidation process, which takes place every five years, ensures that our standards remain at the forefront of international architecture, and once again endorses the quality of our training offer, to continue offering our students an education of excellence, which opens the doors to an even more promising professional future.

The exceptional leadership of Professor María Martínez Morón guided the team in the project, resulting in work of indisputable quality. The students, for their part, also demonstrated extraordinary talent and dedication, with the assembly of a major exhibition that not only met the highest quality standards, but was also a celebration of Architecture. »

## WOODEA, NEW INDUSTRIAL PARTNER

Universidad Europea established a new strategic alliance with WOODEA, a leading company in innovative construction systems. Through this agreement, our FabLab will become a collaborative space where students, researchers and WOODEA professionals will be able to jointly develop R+D projects.

Such synergy will allow both institutions to promote the frontier of knowledge in the industrialized construction sector, generating more sustainable and efficient solutions. WOODEA's experience and knowledge, combined with the research capacity and infrastructure of our University, will create an environment conducive to innovation and the development of new technologies. »



THE UEM AND WOODEA will  
be able to jointly develop  
R+D PROJECTS





## NÉSTOR MONTENEGRO AT COAM

Last October, our Escuela de Arquitectura, Ingeniería, Ciencia y Computación – STEAM had the honor of inaugurating the new academic year of Architecture with a keynote lecture by the renowned architect Néstor Montenegro. The event, held in the Triangular Hall of the Colegio Oficial de Arquitectos de Madrid (COAM), was sold out by students, professors and professionals from the sector, who completely sold out the capacity of the room. Néstor Montenegro, Professor of Projects at our School and founder of EXTUDIO, shared with us, among other of his most outstanding works, the details of his latest winning project: the Spanish Pavilion for Expo Osaka 2025. This ambitious project, developed in collaboration with ENORME Estudio and Smart and Green Design, represents a milestone in Montenegro's professional career and an inspiring example for new generations of architects. The conference allowed attendees to immerse themselves

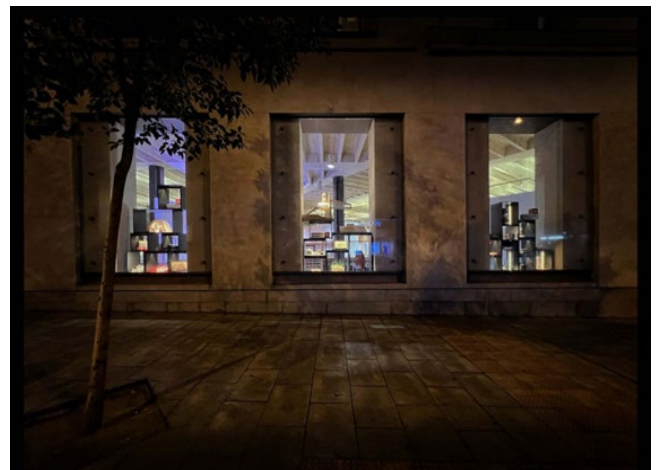


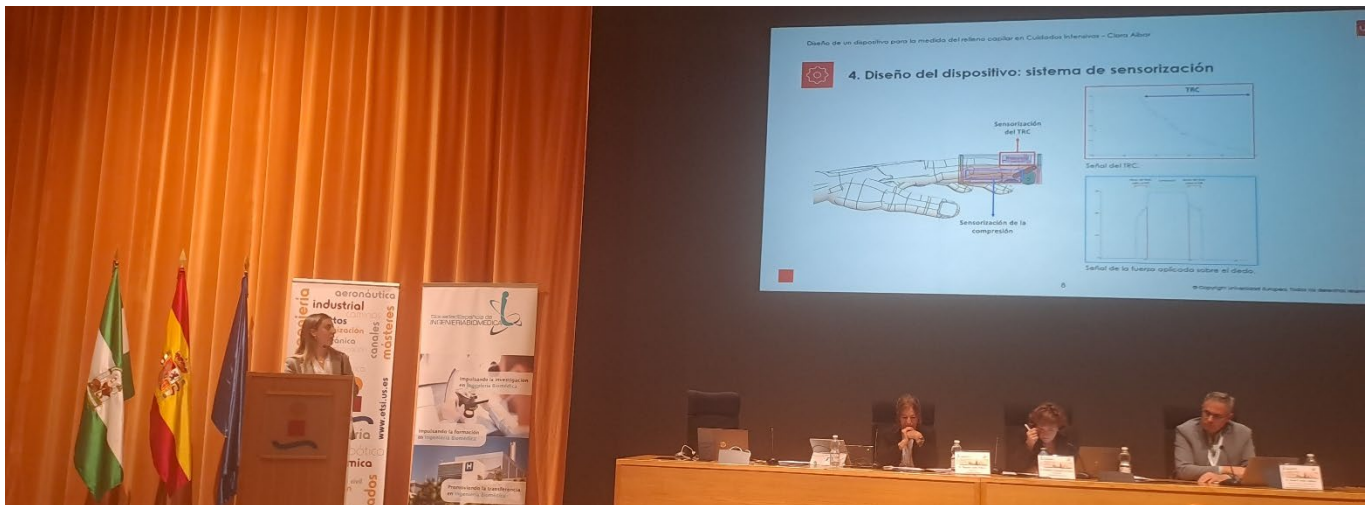
in the creative universe of one of the most outstanding architects of the moment. His passion and knowledge infected all those present, generating an atmosphere of great interest and participation, and is part of our commitment to offer an excellent education, which combines theory with practice and that puts our students in contact with the great references of the best contemporary architecture. »

## NEW RENOVATION OF COAM SHOP WINDOWS

The youngest architecture took the streets of Madrid again. And so, the Universidad Europea, in collaboration with the COAM, renewed once again its exhibition 'Showcase of Architectures'. In this new edition, our most creative students surprised us with new projects, models and proposals that challenge the conventional limits of Architecture. Through these unique pieces, future architects demonstrate their talent and vision of the future, inviting citizens to enter a universe of innovative forms, materials and concepts, to discover the enormous potential of new generations. On this occasion, the results of the first weeks of work of the first-year students were shown, exploring their ability to address real problems and propose innovative solutions also from the most intuited. And so, under the slogan of "Absolute Beginners/ Arquitecturas Poligoneras" it was possible to review the result of four intense weeks of initiatory work in which the students have explored different aspects

industrial estates, from biodiversity to acoustics. This experience has allowed them to develop key skills for their professional future and has been an excellent opportunity to put into practice the first knowledge acquired in class. »





## SEIB CONFERENCE

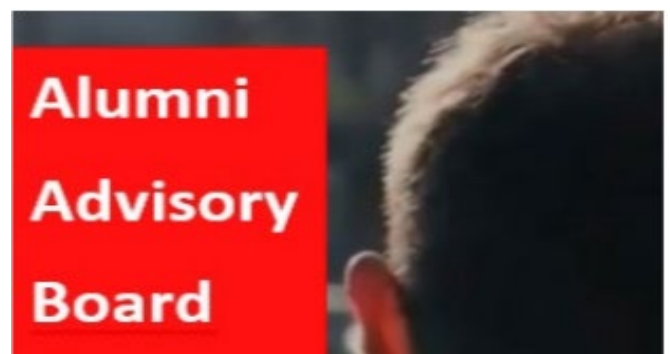
Attendance at the Annual Congress of the Spanish Society of Biomedical Engineering (SEIB).

From 13 to 15 November, the Annual Congress of the Spanish Society of Biomedical Engineering (SEIB) was held. In this edition, the Universidad Europea has participated in two activities. The first of them has been proposing the PFG "Design of a device for the measurement of capillary filling in intensive care", presented by our student Clara Aibar Álvarez to the SEIB-FENIN award aimed at students of the Degree in Biomedical Engineering. In addition, the university has participated in communications sessions and meetings of degree coordinators at the national level with the aim of strengthening the profession and laying the foundations for the professional competencies of graduates in Biomedical Engineering in hospitals. »



## ALUMNI ADVISORY BOARD MEETING

On November 28, a new call of the Alumni Advisory Board (AAB) took place, in which graduates from different degrees, both undergraduate and postgraduate, from the different verticals (or areas of knowledge) into which the School is divided, participated. In this meeting, different alternatives were discussed to improve the experience of our students during their time at the University. The vision of our graduates has been very useful, and has resulted in numerous proposals that will help improve the transversal skills of our students, and to add more value to their educational training. »



## RENEWAL ALUMNI ADVISORY BOARD (AAB)





## UNDERGRADUATE & POSTGRADUATE

The STEAM School has continued to innovate in its Undergraduate and Postgraduate programs, both in face-to-face and distance (online) mode, with the aim of expanding and diversifying the training offer for our students. Thus, several programs that were in development from previous years have seen their subject portfolios increase as a result of the progressive implementation of their curricula. At the same time, other degrees have begun their journey in the current academic year 2024-2025, further enriching the educational experience we offer.

### Science & Aerospace:

Expert Course in Astrophysics, linked to the Bachelor's Degree in Physics: this course teaches its second year for the first time, introducing advanced subjects such as 'Galactic Astrophysics' and 'Extra-galactic Astrophysics'. In addition, it includes observation practices with telescopes, allowing students to apply their theoretical knowledge in a hands-on environment.

Online Master's Degree in Big Data Analysis: this program has a new edition scheduled for spring 2025, offering students the opportunity to specialize in a field that is constantly growing and professionally relevant.

### Computing & Technology:

Bachelor's Degree in Cybersecurity Engineering: the first year of face-to-face studies and the third online are taught for the first time.

Bachelor's Degree in Computer Engineering face-to-face in English: the second year of studies is taught for the first time.

Master's Degree in Web and Online App Development: its curriculum has been restructured, going from a Master's Degree in Lifelong Learning to a University Master's Degree, which reflects a commitment to quality and up-to-date content.

### Engineering:

Online Qualifying Master's Degree in Industrial Engineering: this program includes 20% face-to-face attendance, allowing students to combine the flexibility of online learning with direct interaction in the classroom.

Bachelor's Degree in Blended Telecommunication Systems Engineering: teaches its third year of studies for the first time.

Bachelor's Degree in Industrial Systems Engineering in English – Mechanical Specialization: teaches for the first time its second year of studies.

### Architecture & Civil:

Master's Degree in Sustainable Architecture and Bioconstruction face-to-face: this programme focuses on training professionals capable of addressing the challenges of sustainability in contemporary architecture.

Master's Degree in Urban Design and Sustainable Mobility face-to-face: this program focuses on the planning and design of urban spaces that promote sustainable mobility, a crucial aspect in the development of the cities of the future. »

## Innovation Undergraduate & Postgraduate 2024/2025



## CLUB GRANT PROGRAMME OF THE EUROPEAN UNIVERSITY FOUNDATION AND OPEN ACADEMY OF BANCO SANTANDER

The Universidad Europea held the awards ceremony for the clubs that have been part of the Club Aid Program of the University, Business and Open Academy Foundation of Banco Santander. This ceremony was also held at the Universidad Europea de Canarias Islands and the Universidad Europea de Valencia.

In this event, which was attended by the rector Elena Gazapo, and the vice-rector for University Life and Students, Elia Cambón, together with Sergio Calvo, president of the European University Foundation, the importance of the clubs as ambassadors of our university community was underlined.

Elia Cambón thanked the economic endowment provided by the Program that made the delivery of these awards possible. He also thanked the students for their commitment to the projects they carry out combining different areas of knowledge.

During the event, the following clubs most related to the School were awarded by the rector Elena Gazapo and the vice-rector Elia Cambón: Formula UEM with an endowment of €10000, Galileo with an endowment of €5000, Robotics with an endowment of €7500 and finally SpaceDivison with an endowment of €2220 (image above).

The end of this event was put by the president of the European University Foundation, who thanked Santander Universities for the financial endowment granted by the entity for these awards and recalled that, "the clubs represent the experiential learning that takes place at the University and that they are, without a doubt, our best ambassadors." »



THE CLUBS REPRESENT THE EXPERIENTIAL LEARNING THAT TAKES PLACE AT THE UNIVERSITY AND THAT THEY ARE, WITHOUT A DOUBT, OUR BEST AMBASSADORS

link » <https://universidadeuropea.com/noticias/la-universidad-europea-celebra-una-nueva-edicion-de-la-feria-de-clubes/>





## ORACLE TEACH 2.0 CHALLENGE

### Universidad Europea Triumphs in Oracle Spain's Enseña 2.0 Challenge

Universidad Europea has closed the 2023/24 academic year with incredible news: it has won first place in Oracle Spain's Enseña 2.0 Challenge! The "Cachopo" team, composed of students Alex Quilis Vila and Junjie Wu, won the Oracle Spain 2024 university hackathon. Using Oracle tools such as Oracle Cloud, Oracle Database, and Oracle Analytics, the team analyzed data and predicted next year's most interesting Formula 1 race using AutoML. This achievement highlights the talent and dedication of the students of the Universidad Europea. This event, organized by Oracle and NUWE, was attended by more than 220 people from more than 40 universities, demonstrating the high level of competence and collaboration among the participants. We congratulate everyone involved and thank Oracle and NUWE for organizing these types of events that encourage skill development and innovation among students. »

During that week, the students received daily training on CubeSat satellite design and the organization of aerospace projects, given by ESA professionals at the ESTEC center and the NH Noordwijk Conference Centre Leeuwenhorst Hotel. This experience allowed them to gain valuable knowledge and apply what they learned in their S-ART project. Participation in this program has been a unique opportunity for the students, consolidating their training and bringing them closer to the professional aerospace world. »



## UEM STUDENTS PARTICIPATE IN "FLY YOUR SATELLITE!" FROM ESA

UEM students participate in ESA's "Fly Your Satellite!" Programme. Leaders of the on-board computer and radio telescope & communications department of the student aerospace student project Astronomical Radio Telescope (S-ART) participated in the "Fly Your Satellite! Design Booster 2 Edition" of the European Space Agency (ESA).

The S-ART project, in collaboration with the Galileo Club of the UEM and the Cosmos Aerospace Association of the URJC, aims to build a cubesat and launch it into space. Thanks to the support of Professor Julio Gallegos from UEM, the team was selected to attend the "Training Week" in the Netherlands from 11 to 15 November 2024.





## CAJAMAR UNIVERSITYHACK 2024 DATATHON

Students Alejandra Inés Lapieza Pérez, Raúl Sanz Mancebo and Junjie Wu have won the local phase of the Universidad Europea de Madrid (UEM) and have qualified for the national final of the CajaMar UniversityHack 2024 Datathon challenge. This competition, the largest data analytics competition in Spain, this year has Aggity as a data partner and presents a challenge with real data from a Spanish biotechnology company. Congratulations to the winners! »

## 4TH GRADE DATA SCIENCE STUDENTS VISITED CELONIS

During the visit, the Mathematical Engineering students toured Azca's offices and got to know the company, a leader in process engineering, in depth. In addition, they explored how the Celonis tool works and received information about the certification catalog, as well as about the internship program and graduate recruitment. An educational and motivating experience! »



## ORACLE AND HPE COLLABORATE WITH MATHEMATICS ENGINEERING STUDENTS ON THEIR INTEGRATIVE PROJECTS

Companies of the stature of Oracle and HPE will collaborate with our students of the Bachelor's Degree in Mathematical Engineering in Data Science to carry out their integrative projects. Oracle will support the project "Unraveling the secrets of Formula 1", where students will use advanced data analysis and machine learning tools. On the other hand, HPE will participate in the "Innovation Call: Red Eléctrica", where students will explore energy data to develop innovative solutions applying Big Data technologies. A unique opportunity for our future engineers! »

## ORACLE AND HPE INTEGRATIVE PROJECTS WITH MATHEMATICAL ENGINEERING STUDENTS





## UE STEAM SCHOOL FACULTY APPEARANCES IN MEDIA

Expert professors from the STEAM School are contributing significantly to their fields, addressing crucial topics such as sustainability, education, artificial intelligence and architecture in the media. **Esteban Penelas** participated in numerous interviews in media such as **COPE, La Razón** or the magazine **"Arquitectura y Diseño"**, discussing the future of urban mobility and contemporary architecture in China. He also analyzed the effects of climatic phenomena such as the DANA on constructions. **Julio Gallegos** participated in **Radiotelevisión Española, Telemadrid** and **Diario Sur**, among other media, where he analyzed the arrival of comet Comet C/2023 Tsuchinshan-ATLAS, a unique and unrepeatable event.

**Enrique Puertas** collaborated in several interviews on **Telecinco** and **Voz Populi** about the application of AI to film dubbing and about the professional opportunities of studying a career to dedicate yourself to AI. **Laura García** was interviewed in the newspaper **ABC** about Spain's participation in European initiatives to regulate AI, emphasizing the importance of ethical AI that respects human rights and privacy. **Julia Ayuso** spoke about sustainability in numerous media, highlighting **El País, El Economista, Expansión** and **Diario As**, emphasizing the need to reduce food waste and promote local production to take care of the planet.

**Sergio Bemposta** spoke in **Emprendedores** about the growth of robotics and the job opportunities it offers. **Gonzalo Mariscal** participated in **Ecofin** and reflected on the impact of immersive technologies on education. **Alberto Sols** participated in several media such as **El Español** on how education is adapting to the AI era and on the humanization of AI. »





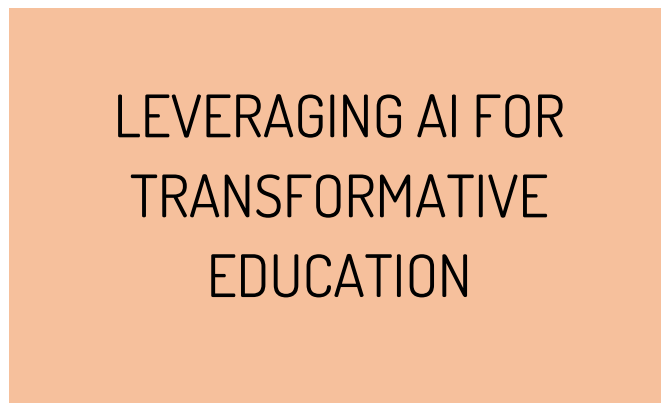
## Dr. MINJUAN WANG, AI EXPERT IN HIGHER EDUCATION

In September, Dr. Minjuan Wang visited the School, Chair Professor of Emerging Technologies and Future Education; Associate Co-Director, Academy for Applied Policy Studies and Education Futures; y Executive Co-Director, Global Institute for Emerging Technologies, de la Education University of Hong Kong.

After a relaxed talk with Dr. Elena Gazapo, Rector of the Universidad Europea de Madrid, Dr. Wang gave a master class to teachers and students: Leveraging Metaverse and Generative AI for Transformative Education. Dr. Wang was pleasantly impressed with the number and level of questions posed

by the students. The vibrant debate reflected the enormous interest of the academic community in the transformative power of artificial intelligence. He then held a meeting with the School Board, in which the impact of artificial intelligence on higher education was addressed, in which both the ways of teaching and the ways of evaluating must change to adapt to the new times.

Finally, possible collaborations with the Global Institute for Emerging Technologies, an institution with which there are important common interests, were explored. To complete a magnificent and productive day, the Dra.Wang met with the principal investigators of the School's research groups, to exchange ideas and explore possible competitive projects to which they can compete together. »





## JOSÉ MANUEL HESSE INSPIRES FUTURE AERONAUTICAL ENGINEERS IN THE "REFERENTS CYCLE"

Last Thursday, as part of the "Referents Cycle", an inspiring talk was held with José Manuel Hesse, a prominent aeronautical engineer, who shared his vision of the present and future of this exciting profession. The interview was conducted by M. Cruz Gaya and addressed crucial issues for future engineers.

José Manuel Hesse, a native of Madrid and with an extensive professional career, is an aeronautical engineer from the Universidad Politécnica de Madrid (UPM) and a PDG from IESE. He has held important positions such as Director of Operations at ISDEFE, Director of the Medio Ambiente de Aena Aeropuertos, at Aena Airports, and Director of Madrid-Barajas Airport, among others. In addition, he has been an advisor to the Secretaría de Estado del Ministerio de Fomento and has worked for SENER and various Spanish companies. His teaching career is also remarkable, having been an associate professor at ETSIA for almost two decades.



During the talk, Hesse shared his motivations for studying aeronautical engineering and recounted his professional career until he became dean of the Colegio de Ingenieros Aeronáuticos. He highlighted the importance of skills and knowledge essential to the profession, and described a typical day at work, underlining the responsibilities that come with it. Hesse also addressed the role of aeronautical engineers in combating climate change and promoting sustainability, as well as emerging areas in aerospace engineering that offer greater opportunities for professional development. Finally, he offered valuable advice to students, encouraging them to rely on the tools acquired during their studies to successfully face the challenges of the profession. Hesse's key message to the students was clear: "You always think you are not sufficiently prepared, but you have the tools that your studies give you to successfully face the challenges of the profession." »

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## SciTechDay

On February 6, the fourth edition of our annual Science and Technology conference will take place. A meeting that this year will have as its central theme sustainability and the impact that the development and use of the latest technological and scientific advances have or can have both positively and negatively on the three dimensions of sustainability (economic, social and environmental) as well as on all the Sustainable Development Goals. »

We hope this year not only to attract all our students but also to all professionals from areas as diverse as Physics, Data Science, Aerospace Engineering and Computing among others. »

## SCIENCE AND TECHNOLOGY CONFERENCE

## IV ENGINEERING WITH HEART CONFERENCE 2025

We continue one more year celebrating the engineering days with heart at the Escuela STEAM of the Villaviciosa de Odón Campus. In March 2025, we will hold a very special conference that, over the last three years, has given us the opportunity to meet great engineering professionals. Professionals who have made valuable contributions, with an altruistic motivation in many cases, and always oriented to the improvement of society.

The world of engineering is sometimes associated with problem solving with the aim of obtaining exclusively economic benefits. However, engineering has allowed and continues to allow society to advance and have a better standard of living. Biomedical engineering is an example of engineering applied to health, but computer engineering, mechanical, electronic, civil, automotive, robotics and telecommunications are areas of knowledge that also make aid and development possible.

Based on these premises, these conferences bring to light professionals who have made great achievements, improving the lives of people who, on some occasions, are excluded for reasons that can be resolved. »



## ENGINEERING WITH HEART: IMPROVING LIVES AND BUILDING A MORE INCLUSIVE FUTURE FOR ALL

<http://uem.es/newsletter>





## PBS OFFICE VISIT TO NORWAY FOR CDIO PEER-ASSESSMENT

We are pleased to report on the upcoming visit of our colleagues Guillermo Castilla and José Manuel López to the Norwegian University of Science and Technology (NTNU) in Trondheim, Norway. This visit, scheduled for February 27 and 28, 2025, aims to carry out our first CDIO peer-assessment with this institution. During their stay, Guillermo and José Manuel will focus on observing and learning about the conceptualization, management, evaluation and assessment of the projects proposed by the teaching staff for students. In addition, they are interested in knowing the degree of coordination required, the logistical management of these processes and the communication of the work philosophy to instructors and teachers. The visit also seeks to enrich our own programs with new perspectives and innovative practices. The collaboration with NTNU will allow our representatives to observe first-hand how these processes are implemented and how an effective integration of the CDIO framework is achieved in the academic environment. »

THE FIRST PEER-TO-PEER  
ASSESSMENT WILL BE  
CARRIED OUT WITH THE  
PRESTIGIOUS NTNU OF  
NORWAY

## NEW INFORMATION TOTEMS IN THE HALL OF BUILDING C

We are pleased to announce an exciting new addition to the Hall of Building C on the Universidad Europea campus Villaviciosa. From now on, you will find wooden totems with two 10x10 cm QR codes strategically placed on the columns of the hall, on the landing on the first floor and on the landing in front of the cafeteria.

These totems serve a double function:

In the first QR, you will be able to check the calendar of exhibitions that will take place in these places. This calendar will allow you to be aware of the various cultural and academic activities that will take place on our campus, thus encouraging participation and interest in the initiatives of our university community.

In addition, the second QR code leads to the reservation form to request the use of the exhibition spaces. These spaces are not limited only to teachers; They are also available to students and university staff who wish to use them to exhibit activities of clubs, associations or even for small one-off events.

The installation of these totem poles by the PBS Office is a further step towards creating a dynamic and participatory university environment. We invite everyone to make use of these resources and to contribute to the enrichment of our academic and social life. If you have an idea for an exhibition or an event, do not hesitate to reserve your space. »





## MASTER'S DEGREE IN ARCHITECTURE INTERNATIONAL WORKSHOP MUA 2025

Continuing with our international commitment, the students of the Enabling Master in Architecture will soon attend the annual MUAW workshop, in London. The workshop focuses on research for the development of ongoing projects, especially inquiring about the implication and enormous impact of technology on the future of our discipline. The workshop is structured in 3 stages: Firstly, a creative one in the experimental workshop in Buckinghamshire, directed by Dr. Guan Lee, professor at the Bartlett School and the Royal College of Art, assisted by Álvaro López and Diego García Cuevas. Secondly, a large General Jury, with important external guests, to evaluate the work in progress. And finally, a series of professional visits to some of the leading architecture studios in the UK; among others, Norman Foster and Partners, Rogers Stirk and Harbour, Amanda

Levete Architects, Heatherwich Studio, Morris&CO, Carmody Groarke, AHMM o Zaha hadid Architects. And finally, a series of professional visits to some of the leading architecture studios in the UK; among others, Norman Foster and Partners, Rogers Stirk and Harbour, Amanda Levete Architects, Heatherwich Studio, Morris&CO, Carmody Groarke, AHMM and Zaha Hadid Architects.

Traveling and working with students outside of the usual academic environment allows them to expand projectual horizons and, in addition, to extend their opportunities for professional future, interacting with such innovative and globally recognized studies and academic institutions.

Led by Juan José Mateos, director of the master's degree, our multidisciplinary teaching team focuses this research on the professional nature of the Programme. »

## TRIP TO MARS 2025

This year 2025 the Mars Journey experience will be held again in the Universidad Europea. In 2024, a mission to Mars began, driven by the collaborative work of more than 1,200 students from more than 20 different grades, including students from the STEAM School, from degrees such as Aerospace Engineering, Industrial Systems Engineering or Computer Engineering. With the support of the European Space Agency (ESA) and the guidance of more than 100 teachers, the participants have faced the challenges of a trip to Mars through an interdisciplinary approach. The mission was developed in three main phases, where the students worked in multidisciplinary teams. The first phase focused on communicating the project to society and selecting possible crew members. The teams developed communication strategies to present the trip as a safe, healthy and necessary initiative. In the second phase, they designed the travel plan, considering an estimated duration of between 150 and 300 days, with the aim of ensuring that 20 people could reach Mars safely and in optimal conditions. Finally, in the third phase, they planned a sustainable colony on the Red Planet, addressing stages such as the initial arrival, the preparation for the arrival of families and the future growth of the colony.



In addition to this hands-on experience, students had the opportunity to learn first-hand what astronaut preparation looks like. Pablo Álvarez, ESA astronaut, shared his experience, underlining the value of interprofessional education: "In the last year I have worked with doctors, psychologists, communicators, engineers, biologists, among others. Space exploration excludes no one, because all professions have a role to play." He also highlighted the innovative capacity of space stations and their impact on society: "In space stations, we recycle between 90 and 92% of the water, and that technology is applied in Africa in communities with water access problems." »



### HackNet Team – Club C\_int

Throughout the year, the Cybersecurity and Ethical Hacking team of the C\_int Computer Club has given training modules aimed at new members, with the aim of introducing them to the basic concepts of pentesting and blue team. At the same time, the club's advanced team participated in the National Cyberleague, a prestigious national cybersecurity competition organized by the Civil Guard, managing to position itself among the 25 best teams in the country.

Subsequently, the organization of the CTF (Capture The Flag) "MagicCodes" was carried out, in collaboration with Hackrocks and under the coordination of Diego Rodríguez. In this competition, team members Mohammed Azzouz, Damián Pérez Moreno and Víctor Martín Lorenzo stood out, occupying the top positions respectively and received their award from the CEO and founder of Hackrocks, Enrique Serrano. »

### SpaceDivision

The SpaceDivision University Club, formerly known as the Air Division, of the Universidad Europea, continues to set milestones in the field of aerospace engineering. In their most recent adventure, the team launched the Astraeus II rocket, reaching an altitude of 800 meters. This event not only meant a step forward in the development of space technology, but also allowed valuable data to be obtained to optimize future launches.

The Astraeus II project was the result of months of hard work and rigorous testing by students who are passionate about technological innovation.

Although the launch presented challenges, the learning gained is essential to refine future projects. These experiences only strengthen the team's vision and commitment to excellence.

In this spirit, SpaceDivision is already preparing its next launch: the Vrackie I, a rocket designed to reach 1,300 meters in altitude. This new challenge integrates significant improvements based on the lessons learned with Astraeus II. »

The name change to SpaceDivision reflects the club's ambition to conquer new horizons and establish itself as a benchmark in aerospace exploration at the university level. The sky is no longer the limit!" »



## SANTIAGO YAGÜE GARCÍA

It is a benchmark in the field of industrial engineering and the railway sector. After graduating as an Industrial Engineer at the Universidad Europea, he continued his training with a master's degree in Railway Systems at the ICAI and achieved the highest academic recognition by obtaining a PhD in Industrial Technologies from the UNED. The solid academic foundation he received at Universidad Europea, combined with the practical approach of his professors, laid the foundation for his outstanding professional career. Since the beginning of his career, he has been closely linked to the railway sector, where he has combined his technical work with his passion for teaching and research. His interest in sharing knowledge led him to complete a Master's Degree in Teacher Training, also at the Universidad Europea, strengthening his ability to train future generations of professionals. Throughout his career, Santiago has worked in important companies in the railway sector, facing the challenges of an ever-evolving environment. Currently, he holds the position of Risk and Interoperability Engineer at Chamartín station, one of the most important in Spain. In this role, he is responsible for ensuring the full interoperability of the station, allowing all operators and passengers to use its infrastructures without setbacks. Their work includes risk management and the implementation of new measures to guarantee security to avoid incidents, maintaining the highest standards in an environment of great operational demand.



"IN LIFE YOU ALWAYS HAVE  
TO LEARN, NO MATTER HOW  
OLD YOU ARE"

## PABLO NEIRA VOCES

Data Analytics & Models @ Santander Consumer Finance Headquarters

Pablo Neira Voces, an alumni of the Universidad Europea in the degree in Mathematical Engineering Applied to Data Analysis, has developed an outstanding career at Banco Santander. Currently, he works as a Data Scientist in the Risk area of Santander Consumer Finance Headquarters, where he has been since June 2022. In this role, he has participated in international projects developing traditional credit risk models and applying machine learning techniques to create next-generation models. His work has been instrumental in the bank's digital transformation, implementing artificial intelligence solutions in the customer intake process and redefining credit risk management. Previously, Pablo was a trainee in the same department, where he contributed to the development and maintenance of time series regression models to obtain the probabilities of non-compliance under IFRS9. His experience and skills in data analytics and risk modeling have been essential in meeting current and future credit challenges.



## JORDI MALO

My father gave me a Toshiba MSX bought in the Canary Islands when I was 7 years old and since then tinkering with Basic I was clear that computers would be part of my life. Naturally, I chose computer science at the University and I have very good memories of my years at UEM, where I completed Technical Engineering in Systems and later Higher Engineering, specializing in robotics. As soon as I graduated, my dream was to work in the systems of a large factory and that's why I specialized in Robotics, but I didn't manage to do it. After some internship jobs, then a job in large mainframe banking before going to consulting at Oracle where I was able to learn, touch and implement a lot of cutting-edge technology, be in many relevant multinational clients that forces you to raise the level and American multinational that trains you as a consultant. It is an experience that marked me and where I learned a lot and very quickly. I got to be in 13 clients in one year ("globetrotter" award they gave me). By the way, in the 5 years I was at the EMU I only suspended databases. Let's just say that I passed it with flying colors. For more than 14 years I have been working at Telefónica Global Solutions where I was hired to be a data architect and since then I have done everything: handling large and small projects, budgets, demand and IT architecture, infrastructure operations and jobs. Successfully implement a multinational Full Stack project leading the PMO that allows from a complex multilevel catalog to process, provision, inventory and invoice telecommunications services for our multinational clients. I was lucky enough to migrate critical systems from on-premise to the Oracle Cloud or for example deploy Microsoft's Autopilot-Intune that allows the user to self-configure the PC simply by entering their email. Actualmente soy gerente de infraestructuras IT, Job position in 29 countries, as well as responsible for data management. I like to train and train so a couple of years ago I collaborated with the UEM giving seminars in the Master's Degree in Big Data Analysis where I had a great time with the drive and the ability to learn from the new generations, and which I recommend you attend. »



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## ÁLVARO GONZÁLEZ SERRANO

I am an architect graduated with Outstanding by the Universidad Europea de Madrid. I have worked in renowned international studios in Madrid and Rotterdam, managing projects of various scales, including museums in Asia and masterplanning in the Middle East, in addition to collaborating with Prada on residential projects. My experience spans research, university teaching, and multiple awards in competitions, which supports my work and dedication. In 2023 I founded González Serrano Studio+ in Madrid, integrating digital fabrication technologies with traditional construction techniques, promoting sustainable architecture. In 2024, my studio received the COAM AWARD in Ephemeral Architecture and the AMA GOLDEN AWARD in PRODUCT DESIGN, together with Jennyfher Alvarado Figueroa, for the project "A raised table in the landscape". The studio maintains an international projection with projects in Europe, the United States and Asia, and I am a member of the expert committee in Seoul. In addition, I work at the COAM, managing continuous training for more than 11,000 registered architects. »

