

Event:

ENERGY in BUILDINGS – Northern Hellas 2025


Date:

Saturday February 22, 2025

Place:

Thessaloniki, Macedonia - Hellas



#	Eleni Zikopoulou Architect Engineer AUTH		
Title:	Junior Architect Engineer at Consortis, Thessaloniki, Greece		
email:	zeleni2001@gmail.com		•
Presentation title:	Water routes in Velvendos, Kozani: Traditional hydro-powered installations along streams and exploitation proposals		
<p>This research project explores water as a renewable energy source, focusing on traditional water-powered installations and their role in today's context of sustainability and cultural heritage. As industrialization, technological advancements, and the climate crisis reshape energy discussions, the relevance of these historical water-powered workshops becomes increasingly significant.</p> <p>The study begins with an examination of the potential of water energy and its historical exploitation in various production processes. A literature survey serves as the primary research methodology, providing insights into the function, operational mechanisms, and historical significance of water-powered laboratories. Key questions addressed include the role of water energy in traditional production, the technical operation of these workshops, and their potential for modern adaptation and reuse.</p> <p>Beyond their practical function, traditional water-powered installations also represent an important aspect of cultural heritage. Once the mechanisms and historical context of water mills and other hydraulic systems are understood, the study shifts to evaluating their possible reintegration into contemporary society. This includes examining their viability as sustainable energy sources and their potential role in heritage conservation and tourism.</p> <p>The findings of this research highlight the enduring significance of water energy, not only as a means of sustainable power generation but also as a link to historical craftsmanship and community identity. By exploring ways to preserve, adapt, and promote traditional water-powered laboratories, this study contributes to the broader discourse on sustainable energy practices and cultural preservation. Ultimately, the research underscores the importance of recognizing and utilizing traditional knowledge in addressing modern sustainability challenges.</p>			
Short CV GREEK:	<p>Αποφοίτησα το 2024 από την Αρχιτεκτονική Σχολή του Αριστοτελείου Πανεπιστημίου Θεσσαλονίκης (ΑΠΘ), με βαθμό πτυχίου Άριστα 9,57/10. Παράλληλα με τις σπουδές μου, συμμετείχα ενεργά σε πολλαπλά εργαστήρια και σεμινάρια, με ιδιαίτερο ενδιαφέρον για τη βιώσιμη αρχιτεκτονική και τις ανανεώσιμες πηγές ενέργειας ως παράμετρο του αρχιτεκτονικού σχεδιασμού. Αυτή τη στιγμή, εργάζομαι στην Consortis, μια ελληνική συμβουλευτική εταιρεία μηχανικών.</p>		
Short CV EN:	<p>I graduated with distinction from Aristotle University of Thessaloniki (AUTH) in 2024, achieving a 9.57/10 (Excellent). In addition to my academic accomplishments, I actively participated in various architectural and design-related seminars and workshops, with a particular focus on reusable energy sources and sustainable design practices. Currently, I am working at Consortis, a Greek engineering consulting firm.</p>		

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CV:

Name: Eleni Zikopoulou

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I graduated with distinction from the Aristotle University of Thessaloniki (AUTH) in 2024, achieving a 9.57/10 (Excellent). I am currently working at Consortis, a Greek engineering consulting firm. During my studies, I completed a six-month volunteer internship at the NASA Space Apps Challenge (NASA NGO) as a Graphic Designer, where I was responsible for designing promotional materials and visuals for international space-related hackathons.

Beyond my academic achievements, I actively engaged in various architectural and design-related seminars and workshops. I contributed to the Architectural Proposal for the Redevelopment of the Neapolis Kozani High School Courtyard, a project in collaboration with the Municipality of Voio, participating in the urban renewal design process. Additionally, I attended the 6th & 7th Traditional Stone Masonry Seminars in Pentalofos Kozani, where I gained hands-on experience in traditional stone construction techniques, as well as the 2nd Traditional Clay Masonry Seminar in Korestia Villages, focusing on eco-friendly and historical building methods.

My involvement in cultural and professional development activities includes volunteering as a tour guide at Open House Thessaloniki (2023–2024). In 2024, I participated in the parallel event of the 11th Biennale of Young Greek Architects, contributing to the organization and curation of the exhibition of international workshops "Breaks," held at AUTH. Additionally, in 2023, I took part in an international workshop in Stuttgart, Germany, focusing on urban equipment around museum spaces, providing valuable insights into contemporary urban design and public space interventions. I also participated in the Soft Skills Academy 2022 by EESTEC LC Thessaloniki, completing training in Time Management and Emotional Agility, and attended the MADE in Thessaloniki 2021 | Thessaloniki Design Week, where I took part in jewelry design, photography, and engraving workshops.

Throughout my studies, I gained extensive experience with various software programs, including AutoCAD, Rhino3D, and Grasshopper for architectural design and modeling. Additionally, I am skilled in Photoshop and InDesign for graphic design and presentation, as well as V-Ray and Enscape for rendering and visualization. I am also proficient in Microsoft Office Suite and have a strong understanding of social media platforms.

I am fluent in Greek (native language) and English (C2 – ECPE certification), with B2 proficiency in German (Goethe certification). Additionally, I have pursued classical piano and music theory studies for nine years, developing a strong foundation in musical composition and performance. I also have an amateur interest in photography, engaging in photo shooting and editing as a creative pursuit.