Feditorial 200925 FIGURE 1 PURE BIOLET 1 OCT 2025 BIOLET BIOLET BIOLET 1 OCT 2025 BIOLET BIOLET BIOLET BIOLET 1 OCT 2025 BIOLET BIOLET

Pulse of Power, Progress and People.

North America | Europe | Asia-Pacific | Middle East

Pioneering Parametric Bioclimatic Design for a Sustainable Tomorrow

Dr. Mohamad Ayash - A Visionary CEO Redefining Urban Development for the Future



THE FUTURE OF URBAN DEVELOPMENT IN 2025 IN THE UNITED KINGDOM

DR. MOHAMAD AYASH

CEO AT DOLMEN DEVELOPMENT UK



SCAN FOR DIGITAL VIEW

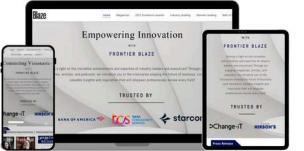
W W W . FRONTIERBLAZE. COM







Frantier Blaze



Editor in Chief **Noah Sinclair**

Business Development Manager Richard Ross

Creative Directions **Ava Thornton**

Designer **Payal Vats**

Associate Designer **Harper Winslow**

Technical Analyst **Mason Ellsworth**

Research Analyst **Sangeeta Kumari**

SEO Executive **Sebastian Harlow**

Follow us



Copyright 2025 @ **Frontier Blaze**, all rights reserved. The images and content featured in this magazine may not be distributed or reproduced in any form, whether by mechanical, electronic means, recording, photocopying, or otherwise, without prior authorization from **FRONTIER BLAZE**. All reprint rights are exclusively held by **FRONTIER BLAZE**.



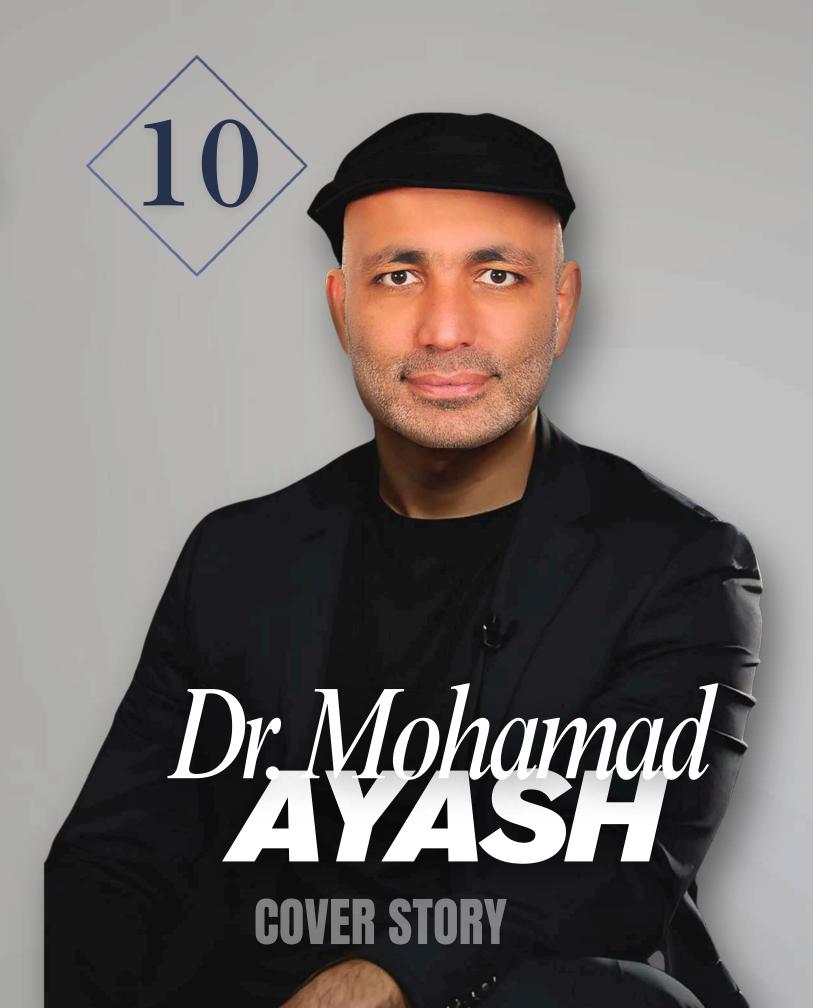
CONTENTS



14 THE SPOT CHOUEIFAT

18 COMPANY'S SCOPE

18 THE DOLMEN DEVELOPMENT REASERCH LAB







His leadership style is both disciplined and dynamic - aligning vision, people, and systems so that even the most complex projects are executed with precision, accountability, and clear strategic outcomes.

CEO at Dolmen

Development UK

DR. MOHAMAD AYASH

In the dynamic world of 2025 urban development, few leaders embody the intersection of technical mastery, visionary thinking, and social purpose like Dr. Mohamad Ayash.

As Founder and CEO of Dolmen Development UK, Dr. Ayash has become a trailblazer in sustainable architecture and engineering, renowned for his innovative "parametric bioclimatic" approach and a career defined by transformation, growth, and exceptional results.

His journey began with a remarkable academic foundation - combining a degree in Mathematics, advanced studies in nanotechnology, and culminating in a PhD in Sustainable, Eco-Friendly Parametricism Architecture. Dr. Ayash's doctoral thesis focused squarely on the challenges of environmental science, sociocultural anthropology, and their impacts on establishing bioclimatic urban cities and digital communities.

This unique fusion of scientific method, design intelligence, and social advocacy has influenced every facet of his professional work,



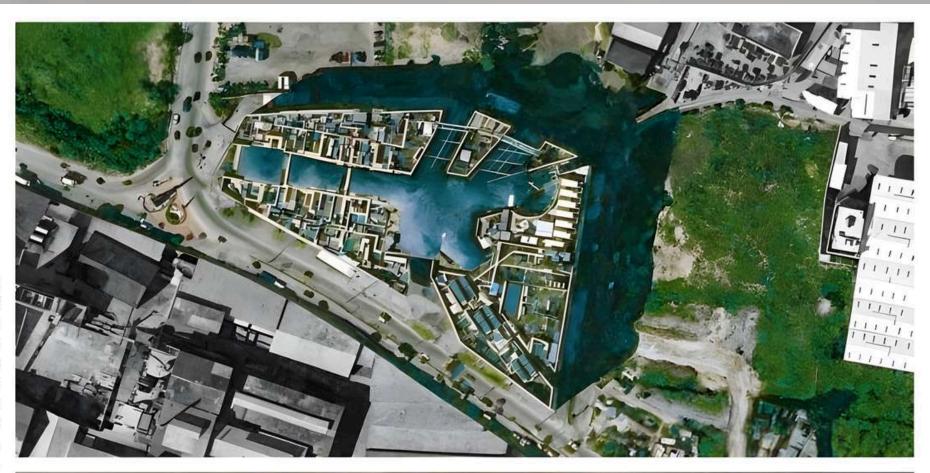
SPOT C CHOUEIFAT

EPCM | 162,000 SQM | 200,000,000 USD

The Spot Choueifat stands as one of Lebanon's most significant retail and leisure developments, redefining the commercial and social landscape of southern Beirut. Envisioned as a vibrant urban destination rather than a conventional mall, its concept is built around three main circulation axes converging at a central plaza. This spatial strategy generates a dynamic flow and divides the building into four sculptural volumes, enriching the user experience and creating diverse spatial conditions. The result is a landmark that brings together shopping, leisure, entertainment, and culture in a single, cohesive environment.

Spanning 162,000 square meters with a project value of 200 million USD, The Spot offers a comprehensive destination under one roof. It includes 35,550 sqm of premium retail space, 3,570 sqm of state-of-the-art cinemas, 1,870 sqm dedicated to family entertainment, and 4,894 sqm of landscaped terraces. The design encourages visitors of all ages to engage with the space and discover everything they need in one place, transforming the mall into a central social and commercial hub.

A key architectural highlight is the 3,000 sqm gridshell skylight with a 34-meter span, engineered with a pioneering hybrid support system to manage seismic movement, differential displacement, and wind uplift while preserving the compression shell's structural efficiency. This innovative solution reflects the project's 14 fusion of architectural vision and engineering precision.







The company's scope is vast, embracing everything from investment capital structuring and property asset optimization to intelligent facility management, global portfolio strategies, and legacy projects that align vision, finance, and long-term stewardship within a unified, accountable framework.

A recognized pioneer in Al-enabled and parametric bioclimatic design, Dr. Ayash has formalized closed-loop workflows that integrate Design Al Analysis, Sustainable Envelope Goals, advanced procurement, and performance-driven delivery. Initiatives such as SEGs by Dolmen and the Dolmen Development Research Lab place Dolmen at the forefront of sustainable envelope technology and digital innovation.

His work is aligned with the world's most ambitious environmental and governance standards - ESG, UN SDGs, ISO 9001, and leading green building frameworks like LEED and BREEAM. Further, his active involvement with organizations such as the USGBC and the World Energy Council demonstrates a deep commitment to the global dialogue on sustainable practice.

Under Dr. Ayash's guidance, Dolmen has become synonymous with the structuring and execution of major government and enterprise programs - delivered under EPC, PPP, and Design-Build models. He is adept at navigating complex contract landscapes, risk allocation, and the intricacies of international finance, using instruments such as FIDIC contracts and UKEF export-credit guarantees to bring ambitious cross-border projects to fruition, particularly

in West Africa and Europe. His entrepreneurship extends into innovative trade and procurement hubs in Italy and UAE, as well as the recent launch of Dolmen Hub Beirut, which stands as a model for green engineering, technical collaboration, and advanced 3D printing capabilities.

Dr. Ayash is equally recognized for his civic and professional engagement, serving in leadership roles with NGOs, trade organizations, and cultural boards - from vice president of Kun Jadir to board member of COMEDIT in Milan. This widereaching involvement illustrates the depth of his commitment to community betterment and

Dr. Ayash is equally recognized for his civic and professional engagement, serving in leadership roles with NGOs, trade organizations, and cultural boards - from vice president of Kun Jadir to board member of COMEDIT in Milan. This wide-reaching involvement illustrates the depth of his commitment to community betterment and international partnership, reinforcing his reputation as a "global bridge-builder" whose work transcends borders and industries.

His strategic compass is steadfast: Dr. Ayash aims to lead in sustainable architectural and engineering design, developing pioneering green projects and delivering exceptional products and services in the UK, USA, and beyond. The mission is clear - generate enduring value for clients while embedding the highest standards of quality and reliability.

In practice, this vision translates into a culture where ESG and sustainability ethics define every service line, and teams are cultivated as ambassadors of change, applying research and expertise to markets where environmental and social



are considered primary drivers of design and delivery.

Throughout his career, Dr. Ayash has earned a reputation for turning challenges into success stories.

Whether orchestrating turnarounds of struggling operations or launching new facilities, he brings a methodical approach, leveraging advanced architectural solutions and scaling businesses into new markets. His leadership style is both disciplined and dynamic – aligning vision, people, and systems so that even the most complex projects are executed with precision, accountability, and clear strategic outcomes.

Dolmen Development UK, under his stewardship, is now advancing four integrated initiatives that align culture, technology, and client value - each initiative reflective of an organization moving seamlessly from concept to manufacture. Sustainable Envelope Goals by Dolmen scale highperformance building skins that couple energy efficiency, climate resilience, and expressive design, marrying technical rigor with cultural narrative.

The Dolmen Development Research
Lab embeds artificial intelligence
throughout the design-to-delivery
process, pairing generative design with
predictive modeling and AR/VR
immersion for faster, more precise,
and waste-reducing project execution.
The Dolmen Crypto Trading Platform
introduces a blockchain-enabled
supply chain built for sustainable
materials and technologies, offering
full traceability and milestone-based
procurement integrity.

Complementing these is Phoenician by Dolmen - a luxury initiative that draws upon cultural heritage to curate bespoke furniture, fittings, and art, blending ancient narrative with contemporary craft to serve high-end, cross-regional projects. Each of these pillars testifies to Dr. Ayash's conviction that true progress demands innovation not just in products, but in the platforms and ecosystems that shape how projects are conceived and delivered.

Across the breadth of his expertise spanning architecture, engineering, management, contract structuring, technology, and international trade - Dr. Ayash's impact is unmistakable. He is a proven agent of change, with an ability to unite vision, finance, and execution in ways that yield enduring results for clients, stakeholders, and communities alike. His knowledge of risk governance, international arbitration, and compliance ensures projects are not only ambitious but robustly delivered across jurisdictions, with finance and procurement bridges that maximize competitive advantage in complex markets.

Technology and performance are hallmarks of Dolmen's delivery model, leveraging Al-enabled workflows and parametric, bioclimatic design to optimize every facet of construction and development. The company is at the cutting edge of digital fabrication and 3D printing, pioneering supply chain solutions and integrating smart contract procurement to enhance transparency, quality assurance, and sustainability for high-value projects. These innovations support the company's expansion across Europe, the Gulf, and Asia, with major





