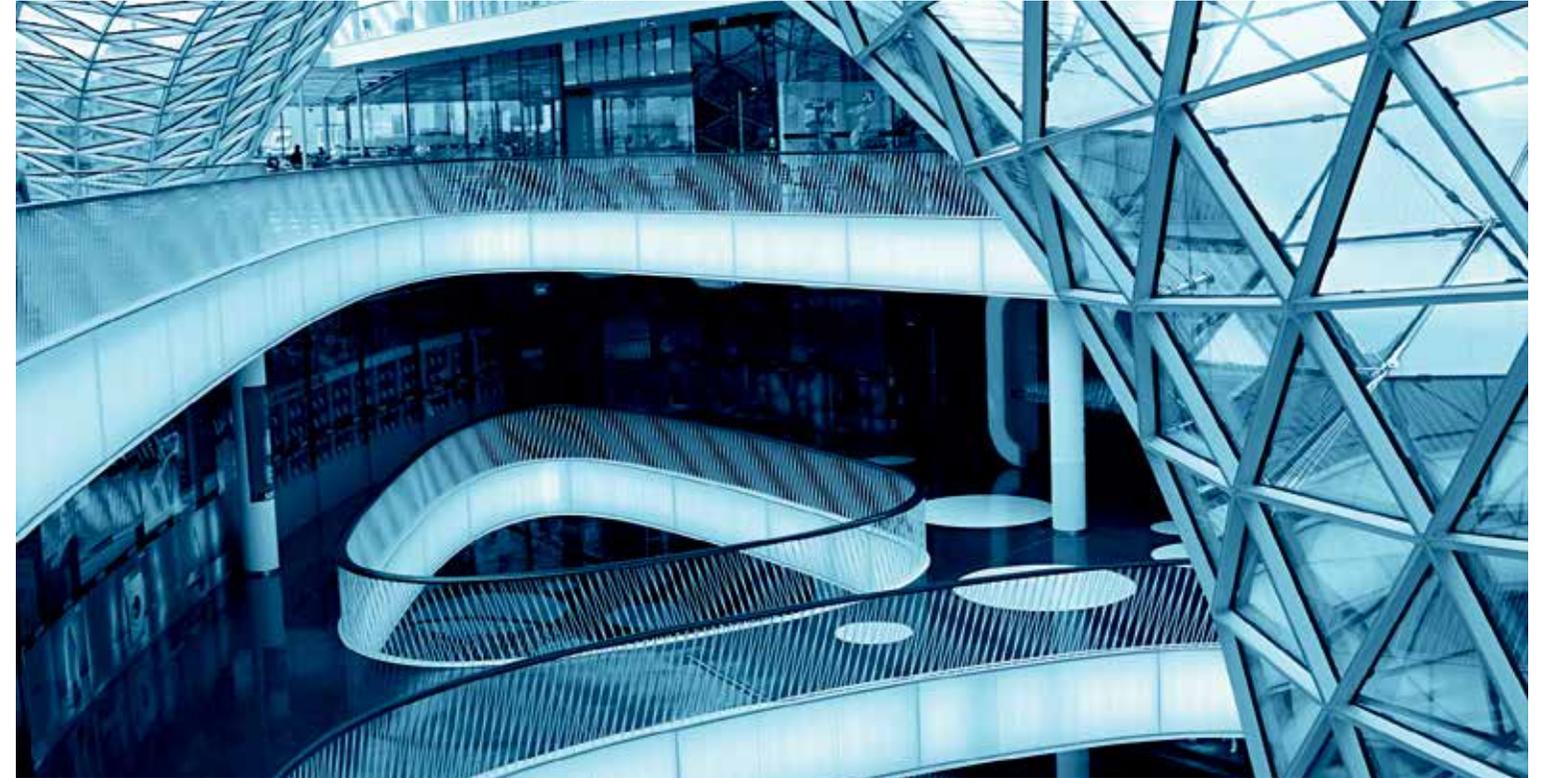


CAVAZOS  
FACADES

FACADE ENGINEERING | INDUSTRIAL DESIGN | RESEARCH & DEVELOPMENT



## FACADE ENGINEERING

Cavazos Engineering was founded in 1996 by the American Architect Jaime Cavazos in San Antonio, Texas.

The company moved to Europe in 2000 and was established in Thessaloniki, Greece. Today the company has expanded to offices in New York, London, Istanbul, and Dubai.

## SERVICES

We offer engineering solutions for facades such as spider glass, tension wire, steel structures, aluminium structures, shading systems, and automated solutions.

Our focus is to combine the aesthetic demands of modern architecture, the static requirements of the building envelope and the economical demands of the investor while adding a performance value that leads to buildings with a net zero energy consumption.



## OUR TEAM

Our team is made up of talented engineers and architects from the Americas and Europe that provide top solutions for the most demanding of projects. The work of Cavazos Engineering is defined by cutting edge design, high tech engineering and sophisticated energy saving technologies. Working with well-known architects and builders like Renzo Piano, Atkins, and Marfields our engineers have provided solutions that will be architectural icons for many years to come.

**Jaime M. Cavazos**  
General Manager



Architect - Facade Engineer, with over 20 years of experience in the field of Research and Development of cutting edge building products. He has worked for some of the largest aluminium extrusion industries in Greece as Director of R&D. He finished his higher education in the USA as an Architectural Engineer and he is an associate member of the American Institute of Architects and an associate member of the society of Facade Engineers in the U.K. He is the founder of our company and is the driving force behind all of the creativity that goes on here.

**Eleni Cavazos**  
Accountant



Eleni handles the day to day administration work and assists in the office and in the production center for prototyping. She is the first person to greet you in the company and welcomes everyone with a smile. She is the connecting dot in our team and effectively coordinates and support us in order to achieve the highest standards and performance.

**Ayla Celik**  
Architect



Architect with over 15 years of experience in Research and Development of aluminium systems. She has completed her Masters degree in Architecture at the Technical University of Istanbul (ITU) and has worked as the head of the design and technical team for many aluminium companies in Turkey. She is our associate in Istanbul and is responsible for technical sales and customer services.

**Nasser Morsy**  
Sales Consultant



Sales Consultant, with over 22 years of experience in exporting aluminium systems to the Arab countries. He has worked for the largest industries in Greece as Export Manager for the MENA AREA. He also has experience in Marketing research & development for new products in new markets. He completed his studies in Alex University - Egypt and holds a Msc from Aristotle University - Greece.

**George Palaskas**  
Civil Engineer



Civil Engineer with expertise in metal and light weight constructions. He completed his studies in Civil Engineering at the Aristotle University, Greece, and has experience in working with materials like aluminium, wood, light gauge metals, for buildings, bridges and photovoltaic parks. He performs the structural analysis and determines the required design loads according to local building codes and standards.

**Pablo Baquero**  
Architect



Architect, Artist and Computational Designer originally from Colombia and currently residing in Barcelona, Spain. He holds a Master of Science in Advanced Architectural Design from Columbia University and currently is a Ph.D. candidate in Esarq, Barcelona. He has many years of experience in advanced parametric / modeling software, digital fabrication, and computational design.

**Dimitris Stalikas**  
Mechanical Engineer



Mechanical Engineer with many years of experience in facade engineering and product design. He has also experience in R&D department in one of the biggest extrusion companies in Greece as project manager of aluminium systems and experience in production management in metal construction facilities. He holds a BSc in Mechanical Engineer and he is a member of Technical Chamber of Engineer in Greece since 2002.

**Tolis Moustakas**  
Industrial Designer



Industrial Designer - Draftsman. He studied Industrial Design at the Technical School of Larissa, and his CV includes experience in designing products for the building industry and interior design. He has experience in preparing product catalogs, production drawings, dimensioning drawings, and revision drawings.

**Effimia Giannopoulou**  
Architect

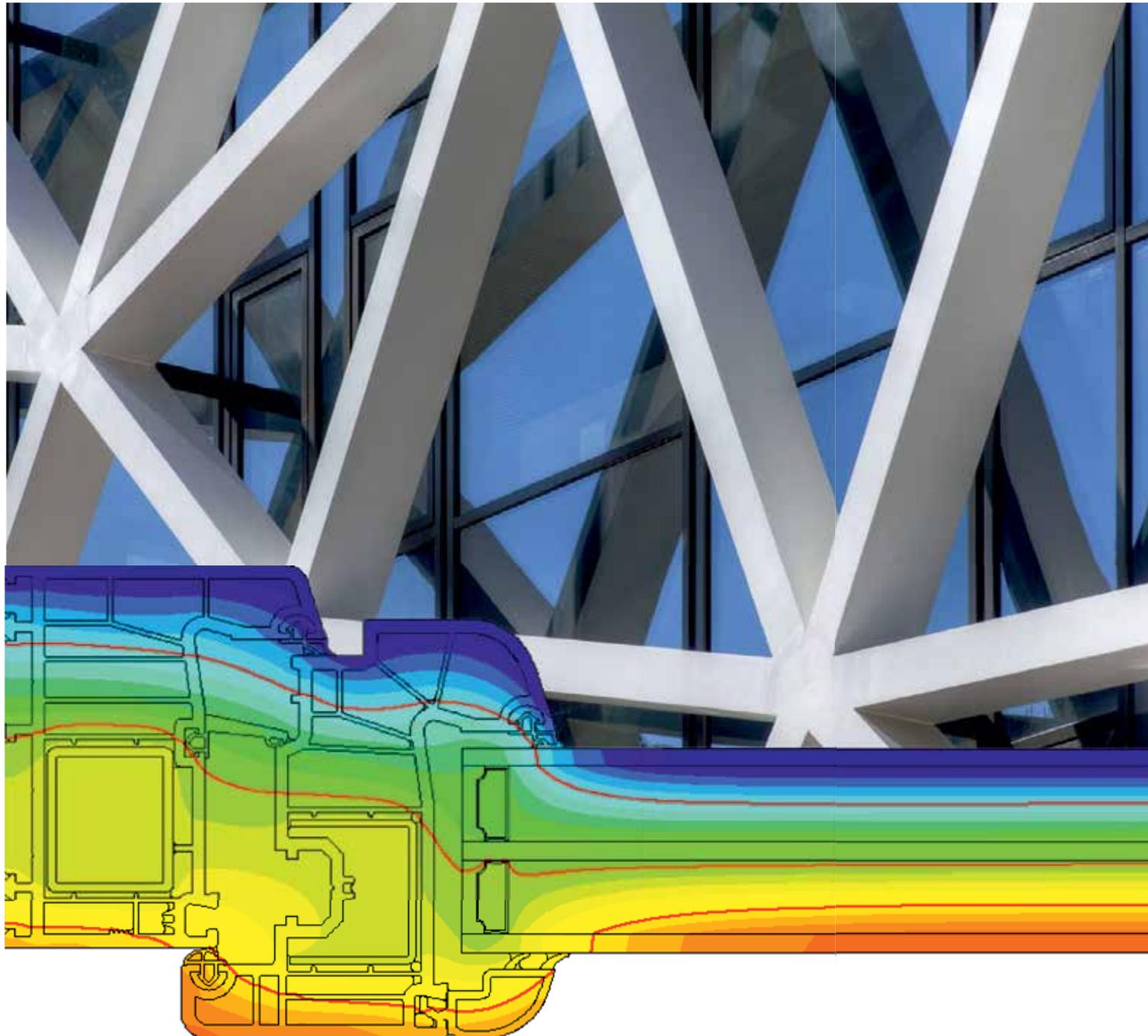


Architect and Computational Designer with a Masters of Science in Biodigital Architecture of Catalunya. She has many years of experience as an Architect and Designer and has worked with design teams in London, Delf, and Barcelona in the fields of parametric / modeling, digital fabrication and computational design.

**Andreas Tsihchlis**  
M. E. Designer



Mechanical engineering designer with two decades of experience in the field of metal construction and aluminum applications. He has worked as an industrial designer for major copper and aluminum industries and has acquired sufficient specialized knowledge in the field of designing, producing and constructing.



## FACADE ENGINEERING

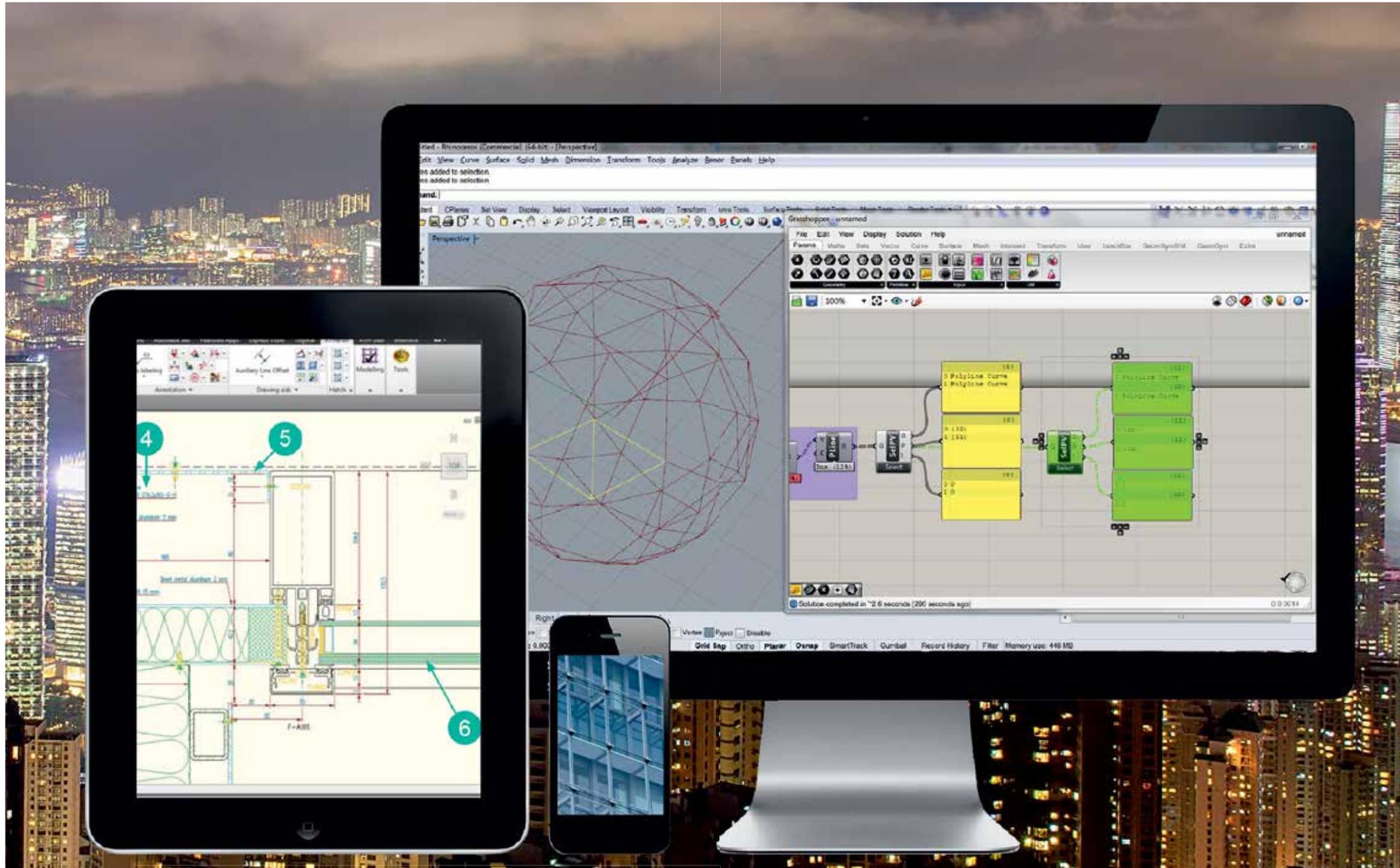
- Conceptual Design
- Material Specification
- Documentation and Tendering
- Inspection & Field Testing
- Static Studies (FEA)
- Construction Documentation
- Thermal Reports
- Shading & Daylight Studies
- Drafting & 3D Modeling
- Mockups & Prototypes
- Fabrication Supervision
- Onsite Supervision
- Performance Testing & Reporting



## RESEARCH & DEVELOPMENT

- Innovative Custom Made Solutions
- Testing & Certification Process
- Prototyping & 3D Printing
- Patent Documentation
- Product Research





## Software & Tecnology

We use the following software for our Facade Engineering projects:

- Solid Works for 3D Modeling and Designing Customized solutions
- Autocad Drafting, Workshop Drawings, Architectural details
- Frame Simulator Thermal Simulation FEA
- ANSYS 3D Structural Analysis
- SAP 2000 2D Static Studies
- MODO 3D Modeling and Rendering
- Rhinoceros 3D Modeling and Parametric Design

## Certification Process

- Aluminium, steel, and wood frame facades
- Double skin facades
- Louvre systems both fixed and automated
- Point fixed glazing systems (Spider glass facades)
- Tension rod structures for all glass facades
- Space frame trusses
- Cladding materials such as aluminium panels, ceramic tiles, HPL panels, granite and stone
- Thermal simulations to calculate the Ucw of the curtain wall
- Energy consumption study and operating cost of building envelope

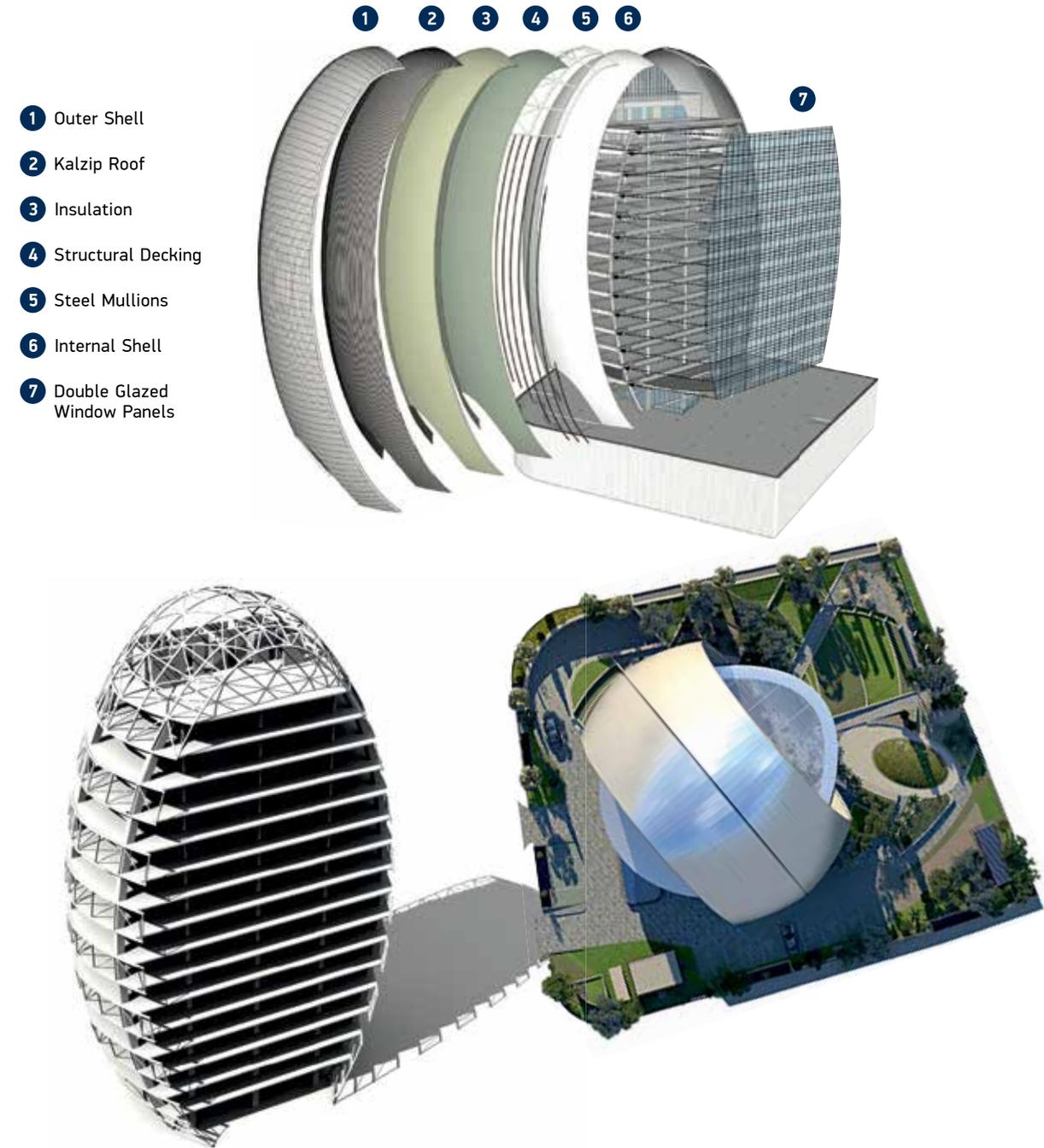
## Experience & Expertise

- Facade engineering and design services
- Consulting services regarding the building envelope, procurement, and system selection
- Project management and onsite inspections
- Structural analysis according to national standards



## OVAL TOWER

The Oval Tower is a sustainable office building development located in the heart of Limassol's dynamic business district. It has fairly been described as an iconic new landmark in the business world. Its distinctive shape has been inspired by the round pebbles on the Limassol shoreline and when realized will be the tallest office building in Cyprus. It has been designed by UK based architects Tom Wright, Hakim Khennouchi and Geku Kuruvilla George whilst working with the internationally famous, Atkins. The engineering challenge for us was to redesign existing architectural aluminum systems in order to comply to the project requirements in terms of appearance, function and static demands.





## STAVROS NIARCHOS FOUNDATION CULTURAL CENTER

The SNFCC in Athens was designed by Renzo Piano and when it opens in 2016, will include the new home for the Greek National Opera, the National Library of Greece, and a 42-acre public park.

The engineering challenge for us was to design a skylight system and design custom solutions in order to construct the skylights according to the specific architectural requirements, without compromising the system's performance. Complex 3D design was implemented drawings, and static analysis was performed to validate the solution.

## ICON TOWER

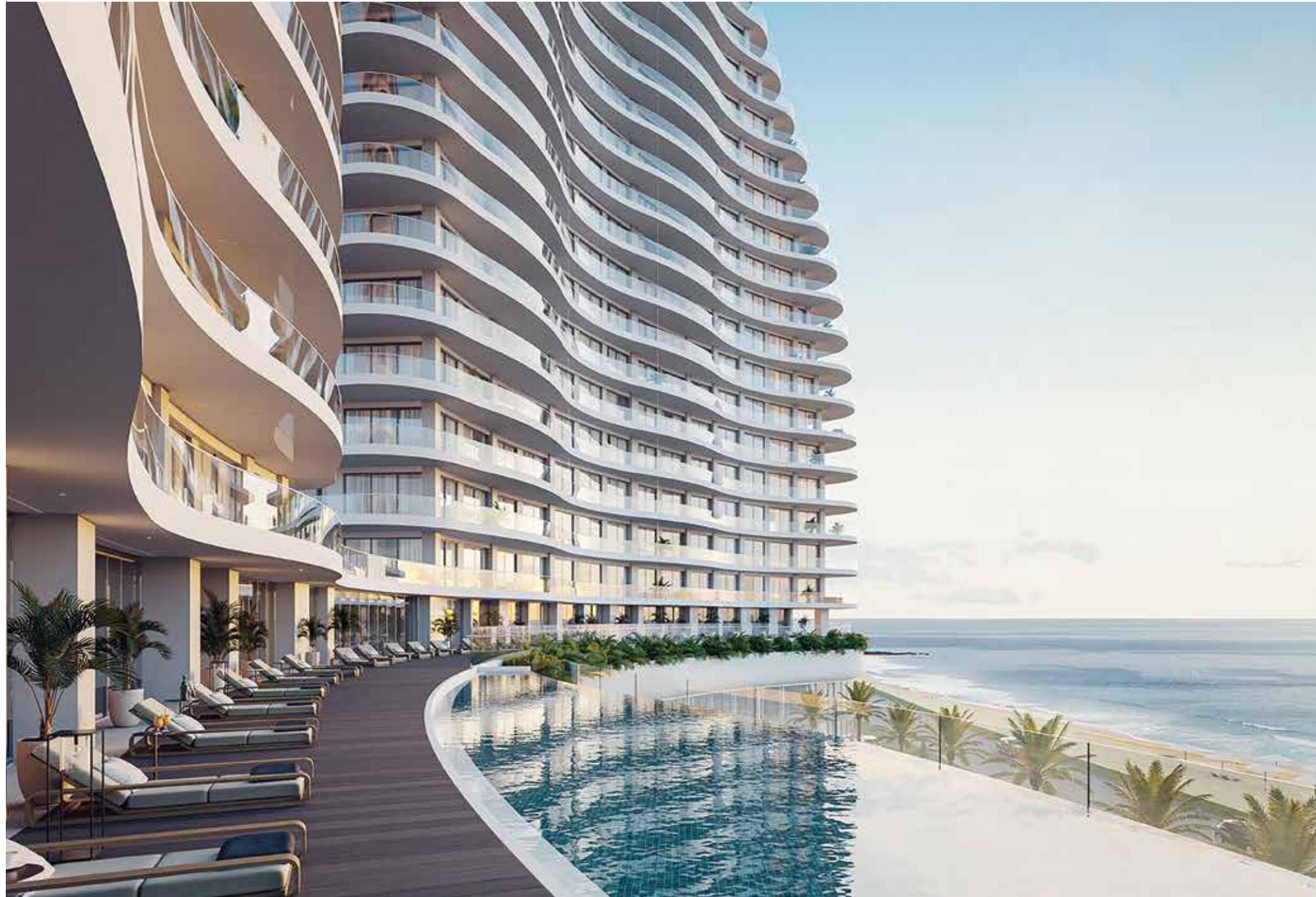
The Icon is one of Cyprus' imminent high-rise buildings, offering 1-4 bedroom residences with stunning uninterrupted views of the Mediterranean Sea and the bustling city of Limassol, with high-end finishes throughout. All residences are fully furnished and accessorised.

Inspired by the unique shape of a luminescent diamond, The Icon was designed to house exclusive residences and a spectacular infinity-edge pool and restaurant on the 10th floor with uninterrupted views of the Mediterranean Sea.

Designed by Imperio's award-winning team, all residences are delivered fully furnished and accessorised with sophisticated interiors that embrace the notion of elegant living. Provoking unique emotions, all interior spaces are complemented by timeless designer brands which are, among others, BRABBU, Ivano Redaelli, Catellan Italia, Ethimo, Jonathan Adler and Delightfull lighting. Each of the tower's residences, ranging from one-bedroom apartments to penthouses, is instilled with gracious proportions and attention to detail.

We were awarded the Facade Consultancy for the entire envelope of the project. We prepared the drawings, static calculations and specifications for tenders, reviewed the tenders and advised the client on choosing the facade contractors. We reviewed and corrected the shop drawings and static calculations from the facade contractors as well as onsite inspections and visual mockup inspections as well as onsite water spray inspections.





## DELMAR LIMASSOL

Situated on one of Cyprus most beautiful and sought-after shorelines, this limited collection of new homes is surrounded by expansive terracing with lush planting and ornate pools, all with magnificent uninterrupted sea views. The unrivalled location puts buyers at the heart of everything Limassol has to offer – combining the best of cosmopolitan, global city living with old town charm.

We were awarded the Facade Consultancy for the entire envelope of the project. We prepared the drawings, static calculations and specifications for tenders, reviewed the tenders and advised the client on choosing the facade contractors. We reviewed and corrected the shop drawings and static calculations from the facade contractors as well as onsite inspections and visual mockup inspections as well as onsite water spray inspections.



## ORBIT PIREAUS

Calm curves, bright spaces and white surfaces began to emerge and create at the 42,000 sq.m. of the building, what is called The Orbit. A beautiful set of clean lines, dynamic presence and green consciousness, gave a beautiful green "spaceship" in the area of Athens where most of the tall buildings are located, the Ampelokipi area.

It has three large bridges with huge openings, hanging gardens and, among others, employee interaction areas. At the spectacular entrance, with black and shiny marbles, a huge column with green, live plants creates a waterfall feeling.

We performed the static calculations for the curved glass balustrades and glass constructions on the roof terrace. Using finite element analysis we performed the calculations and determined the glass design for the entire project.



OUR PARTNERS:



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