



# Georgios Xekalakis

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📅 **Date of birth:** 17/01/1991 🇬🇷 **Nationality:** Greek

## ABOUT ME

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I am always interested in learning new things, confronting new challenges, and I can easily adapt to new environments. Proven ability to effectively manage & timely deliver projects. I can function in high-pressure environments, unfazed and focused. The main goal of my professional career is to work for a leading company, which offers professional development and perspective.

## WORK EXPERIENCE

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[ 31/07/2019 – Current ] **Research engineer**

### *Frederick Research Center*

**City:** Nicosia

**Country:** Cyprus

#### **Main activities and responsibilities:**

- Participation in different European Research Projects about Vulnerability and Resilience of Structures
- Publication of scientific papers.
- Participation in European conferences.
- Teaching labs of structural and static courses at Frederick University of Cyprus.
- Consulting the students with their thesis projects.
- Creation of webpages, logos and newsletters.

[ 31/12/2011 – Current ] **Partner**

### *Partnership " E.B.Charalambopoulos - G.I.Xekalakis" - Construction Association*

**City:** Athens

**Country:** Greece

**Business or sector:** Construction

#### **Main activities and responsibilities:**

- On-site construction
- Inspection and management of the building procedure
- Dealing with the design
- Promoting and selling of properties
- Overseeing security of workers
- In communication with lawyers, accountants and clients.

[ 31/10/2018 – 30/12/2018 ] **Designing engineer**

### *MoY Studio*

**City:** Athens

**Country:** Greece

**Main activities and responsibilities:**

- Inspection Of Old Buildings
- Static Analysis
- Roof Extension Designing,

[ 30/06/2018 – 29/09/2018 ] **Site Engineer**

**RESTEC S.A.**

**City:** Agrinio

**Country:** Greece

**Main activities and responsibilities:**

- The on-site construction and inspection and the management of road procedure and wind turbines erection
- Control of Construction Material Quality
- Construction with the view of environment's protection
- Helping on surveyors measurements
- Cooperation with sub-contractors agencies
- Italian and English translation and communication

[ 31/01/2018 – 30/05/2018 ] **Students assistant**

**Frederick University of Cyprus**

**City:** Nicosia

**Country:** Cyprus

**Main activities and responsibilities:**

Helping students with their homework and guiding them when confronting difficulties

[ 30/09/2015 – 30/05/2016 ] **Worker/Assistant Engineer**

**A & G Constructions**

**City:** Athens

**Country:** Greece

**Main activities and responsibilities:**

- Worker/Assistant Engineer
- Inspection and management of the structure's procedure
- Work in the production line
- Communication with the clients
- Computer project designs

[ 30/09/2013 – 29/06/2015 ] **Private lessons**

**Freelancer**

**City:** Serres

**Country:** Greece

**Main activities and responsibilities:**

- Tutor in statics related courses
- Helping students with their homework and guiding them when confronting difficulties

**EDUCATION AND TRAINING**

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[ 31/01/2021 – Current ] **Ph.D. In Civil Engineering**

**Frederick University of Cyprus**

**Address:** Nicosia, Cyprus

[ 30/09/2019 – 29/01/2021 ] **MSc in Civil Engineering**  
*Frederick University of Cyprus*  
Address: Nicosia, Cyprus

[ 30/09/2016 – 29/06/2018 ] **BSc in Civil Engineering**  
*Frederick University of Cyprus*  
Address: ANDREA AVRAMMIDI 41 A, Floor 205, 2024, Nicosia

[ 30/09/2012 – 29/05/2016 ] **BSc in Civil Engineering**  
*International University of Greece*  
Address: Serres, Greece

[ 30/09/2010 – 29/06/2012 ] **BSc in Civil Engineering**  
*Universita degli studi Roma Tre*  
Address: Rome, Italy

## LANGUAGE SKILLS

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**Mother tongue(s):** Greek

**Other language(s):**

### **English**

**LISTENING B2 READING B2 WRITING B2**

**SPOKEN PRODUCTION B2 SPOKEN INTERACTION B2**

### **Italian**

**LISTENING B2 READING B2 WRITING B2**

**SPOKEN PRODUCTION B2 SPOKEN INTERACTION B2**

### **French**

**LISTENING A2 READING A2 WRITING A2**

**SPOKEN PRODUCTION A2 SPOKEN INTERACTION A2**

## DIGITAL SKILLS

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### My Digital Skills

#### Static and Dynamic Analysis

SAP2000 | Abaqus (Basic) | CSI Etabs | CSI Safe | Seismosoft software packages | F espa - Structural Software by LH Logismiki | Dlubal RFEM | Python

#### Architectural Design

Revit | ARCHICAD | AutoCAD

#### Microsoft Office

Microsoft Word | Microsoft Powerpoint | Microsoft Excel

#### Graphic Design

Adobe (Adobe Illustrator, Adobe Photoshop, Adobe Indesign, Adobe XD)

## CONFERENCES AND SEMINARS

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[ 19/06/2022 – 24/06/2022 ] **ISEC EURO MED SEC 4** Leipzig, Germany

*Abstract: Earthen structures made of adobe bricks are complex systems making the identification of their behavior difficult especially when they have to sustain lateral such as seismic forces. This paper presents a numerical investigation for the assessment of the structural response of unreinforced adobe masonry structures and how the installation of wooden ring beams contributes to their resistance. In the framework of the numerical investigation, detailed finite element models were created to simulate the response of an adobe building with and without the implementation of wooden ring beams. The test building is located in Cyprus, in the South Eastern Mediterranean region which is a seismic area. The material properties were based on experimental data of local materials found in the literature. The models were subjected to various earthquakes performing time history analyses for the calculation of relevant displacements and stresses. The results show that the implementation of the wooden ring beams vastly changes the response of the building not only in terms of the magnitude of displacements and stresses but also their distribution pattern.*

## HONOURS AND AWARDS

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[ 09/04/2018 ] **"TempoRefugee" Housing Project Awarding institution:** Frederick University of Cyprus

Member of multidisciplinary team that designed and built a prototype housing unit for refugees in eastern EU countries.

[ 18/04/2018 ] **Runner-up Awarding institution:** Cypriot University Championship

Runner-up, with the basketball team of Frederick University, of the Cypriot University Championship

[ 13/05/2009 ] **Runner-up Awarding institution:** Local Football Club Association Championship

Runner-up, with the football team "Karpathos" of the Local Football Club Association Championship in Piraeus

[ 11/05/2018 ] **Winner Award Awarding institution:** Local Basketball Club Association Championship

Winner Award, with the basketball team "Ikaros", of the local championship in Athens

## HOBBIES AND INTERESTS

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**Athletism**

**Playing Piano**

**Painting**

**Reading**

**Cooking**

## PROJECTS

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[ 11/01/2019 – 30/04/2022 ] **SupERB**

The SupERB research project is related to the priority sector “Built Environment and Structures”, under the sub-sector “Modern design of structures and infrastructures” covering the focus area “Upgrading of existing building stock” focusing on the theme “Seismic and Energy upgrading” of the RPF Program “Restart 2016-2020”. The objective of the SupERB proposal is to develop a holistic and novel methodology for the optimum simultaneous upgrading of existing buildings for seismic resistance and energy efficiency, taking into account economic, technical, geolocation, durability, and environmental factors. The objectives of the project provide improved safety against seismic loading and enhanced energy efficiency to reinforced concrete (RC) and load-bearing masonry buildings, which comprise the majority of the building stock in Southern Europe.

[ 08/01/2019 – Current ] **STABLE**

STABLE addresses the design and development of a Thematic Platform, combining structural stability models, damage assessment simulation tools, advanced remote sensing, in-situ monitoring technologies, geotechnics, and cadastral data sets with WebGIS application for mapping and long-term monitoring of CH. The STABLE platform will support authorities responsible for cultural heritage preservation in the design and implementation of policies for monitoring, conservation, and safeguarding our heritage. It will connect management and decision-making practices with scientific and technical knowledge efficiently.

[ 13/11/2020 – Current ] **ISTOS**

Natural hazards are extreme events that can cause loss of life and damage to property. Some of these hazards, such as flooding, can happen anywhere while others, such as earthquakes, can be site-specific. In most cases, hazards disrupt human activities, leading to times of unrest and emergency. The communities which are vulnerable to such hazards are at greater risk to experience human, economic, social, and environmental losses. The ISTOS project aims to strengthen the scientific excellence and innovation capacity of the network partners in the area of the structural safety of buildings and infrastructure, disaster risk reduction (e.g. earthquakes, floods, medicanes), and post-disaster management.