

## Personal Profile

Professional Civil Engineer with over fifteen years of experience and excellent communication, organization and coordination skills. Involved in projects from the concept and detail of the design through to implementation, testing, and handover. Able to ensure the timely, safe and cost-effective design and implementation during the life cycle of projects from conception to completion. Part of a team that ensures construction is fit-for-purpose and adheres to the project budget and schedule. Responsible for the design and analysis of structures made of steel, concrete and bearing masonry walls for commercial, industrial and residential use. Strong engineering professional with an MSc focused in Infrastructure Engineering from the Department of Civil Engineer, University of Patras, Greece. Since 2018 involved in structural bridge assessments with AECOM. Member of ICE and TEE.

## Key Skills & Abilities

- Concrete technology
- Construction materials
- Production management (construction)
- Material and production control
- Civil engineering
- Damage investigations
- House building technology
- Building materials technology
- Steel Detailing
- Static and Dynamic Analysis
- Construction technology (engineering)
- Restoration (architecture)
- Steel structures
- Production management (civil engineering)
- Budget responsibility
- Concrete structures
- Planning
- Drainage construction
- Eurocodes
- Earthquake Engineering
- Civil engineering project design
- Construction engineering
- Building design
- Timber structures
- Strength analysis
- Quality (responsibility for)
- Civil engineering work
- Masonry structures rehabilitation
- BIM

## Computer Skills & Personal Abilities

- Standard Spreadsheets
- SAP2000
- SAFE
- LUSAS
- ENGLISH. Certificate of Proficiency in English. University of Cambridge (C2).
- GERMAN. Goethe Zertifikat-Goethe Institut (B1).
- GREEK. Native speaker.
- AutoCAD
- ETABS2000
- Fortran 90/95
- Autodesk Bridge Designer
- StruCAD
- MathCAD
- Tekla Steel Detailing
- Standard Spreadsheets

## Career History

### ASSET ENGINEER.

14/10/2024 – present

Network Rail York, UK. ([www.networkrail.com](https://www.networkrail.com))

### SENIOR CIVIL/ STRUCTURAL ENGINEER.

AECOM Newcastle, UK. ([www.aecom.com](https://www.aecom.com))

18/08/2018 – 10/10/2024

- Structural assessment of Bridges (Civils Assessments of Framework Agreement).

Routes Scotland-London North East-London North West.

- Level 1 assessments of Overbridges and Underbridges.

(AUTODESK Structural Bridge Design for grillage models).

- Level 2 assessments of Overbridges and Underbridges.

(LUSAS for finite elements method).

- Experience in the following codes

Network Rail Group Standards / Network Rail Company Standards:

NR/GN/CIV/025 Issue 3 June 2006 - The Structural Assessment of Underbridges.

British Standards/codes of practice:

BS5400:pt 3: 2000 Code of practice for design of steel bridges

BS5400:pt 4: 1990 Code of practice for design of concrete bridges

BS5400:pt 5: 2005 Code of practice for the design of composite bridges

BS2691: 1963 Steel wire for prestressed concrete

BS3617: 1971 Seven-wire steel strand for prestressed concrete  
BS5896:2012 High tensile steel wire and strand for the prestressing of concrete – Specification  
BS5268:pt 2: 2002 Structural use of timber-Code of practice for permissible stress design, materials and workmanship  
BS5502:pt 22: 2003+A1:2013 Buildings and structures for agriculture - Code of practice for design, construction and loading

Dept of Transport standards:

CS 454 Assessment of Highway Bridges and Structures  
CS 455 Assessment of Concrete Highway Bridges and Structures  
CS 459 Assessment of Bridge Substructures, Retaining Structures and Buried Structures  
BD 21/01 The Assessment of Highway Bridges and Structures  
BD 37/01 Loads for Highway Bridges  
BD 44/15 Assessment of Concrete Highway Bridges and Structures  
BD 56/10 The Assessment of Steel Highway Bridges and Structures  
BD 61/10 The Assessment of Composite Highway Bridges and Structures  
BD 31/01 The Design of Buried Concrete Box and Portal Frame Structures

Other

Guideline 23 and Tserv618 Interim Advice Note

- Personal track safety training, Ladder training, Harness training - Sentinel card holder. Member of site inspections teams.

#### **CIVIL ENGINEER-DESIGN-CONSTRUCTION DEPARTMENT.**

21/02/2017 -21/10/2017

DEYAH Water and Wastewater company of Municipality of Irakleion, Crete, Greece. (<https://www.deyah.gr/>)

- Evaluated damages on buildings and infrastructure.
- Cost estimating.
- Design and analysis of retaining wall.
- Coordinated and supervised the construction of retaining wall.
- Oversaw all repair works.

#### **CIVIL ENGINEER - CONSTRUCTION SITE SUPERVISOR ENGINEER.**

22/05/2014 -31/12/2015

EPHORATE OF BYZANTINE AND POST BYZANTINE ANTIQUITIES. MINISTRY OF CULTURE. Street of the Knights. Medieval City of Rhodes, Greece – Partnership Agreement for the Development Framework Project. Restoring crumbling and dangerous parts of the Palace of the Grand Master of the Knights in Medieval City of Rhodes.

- Directed the repair and retrofit of the museum.
- Evaluated the cost.
- Led construction teams.
- Managing and driving the achievement of quality.
- Managed subcontractors.
- Delivered Project milestones on time and within budget.
- Negotiated with Public Authorities and proactively resolved legal issues.
- Wrote Progress Reports for Ministry of Culture.

#### **CIVIL ENGINEER - CONSTRUCTION SITE SUPERVISOR ENGINEER.**

19/10/2012 - 30/11/2013

ST' EKPA-EPHORATE OF CLASSICAL ARCHEOLOGY-MINISTRY OF CULTURE. Protection & Restoration of the Patra's Roman Aqueduct on the Aroe's Valley –A'Phase: Measures Of Immediate Strengthening. Partnership Agreement for the Development Framework Project. Greece.

- Determined damages and restoration process of the Aqueduct.
- Evaluated the cost.
- Led construction teams.
- Managed subcontractors.
- Conducted geotechnical sampling and SPT tests.
- Maintained a log of cracks monitoring.
- Evaluated groundwater surface using piezometers.
- Delivered Project milestones on time and within budget.
- Negotiated with Public Authorities and proactively resolved legal issues.
- Wrote Reports for Ministry of Culture.

#### **CIVIL ENGINEER -STRUCTURAL ENGINEER- SITE ENGINEER**

2/09/2010 -2/5/2012

KARANIKAS. STEEL STRUCTURES. Steel Construction Company. Patra. Greece.

- Conducted static and dynamic analysis of steel structures.
- Performed steel detailing and general arrangement drawings.
- Managed the issuance of license according to legislation.
- Supervised the erecting of steel structures.
- Evaluating tenders and providing recommendations.
- Carrying out effective client liaison for all projects undertaken.

**CIVIL ENGINEER-STRUCTURAL ENGINEER.**

1/05/2008 – 1/9/2010

NEW STYLE HOMES S.A. METAL BUILDING CONSTRUCTION. Patra. Greece.

- Conducted static and dynamic analysis of steel structures.
- Performed steel detailing and general arrangement drawings.
- Managed the issuance of license according to legislation.
- Supervised the erecting of steel structures.
- Evaluating tenders and providing recommendations.
- Negotiating with clients.

**CIVIL ENGINEER - RESEARCH FELLOW.**

2007 –2008

EPEAEK ARCHIMEDES II-Reduction of Environmental Pollution with Use of Solar Energy for Drying of Products-Improvement of Biochemical Processes and Rational Installation of Emission of Pollutants Sources", Department of Mechanical Engineering, Technological Educational Institute of Patra, Greece

- Performed numerical modeling of heat transfer in reactors using MATLAB.

**CIVIL ENGINEER- RESEARCH FELLOW.**

2005 –2007

"PRIMAC-Integrated actions in order to protect coastal areas from anthropogenic pollutions and for groundwater restoration by reversing the seawater intrusion in coastal aquifers." INTERREG IIIA Greece-Italy 2000-2006. Department of Civil Engineering, University of Patra, Greece, Consiglio Nazionale delle Ricerche, Istituto di Ricerca Sulle Acque, Bari, Italy

- Performed modeling of fate and transport of colloids in groundwater using numerical methods.

**CIVIL ENGINEER – STRUCTURAL ENGINEER DESIGN/ANALYSIS DEPARTMENT.**

2/02/2005 – 1/05/2008

TRIAINA S.A Construction company. Patra. Greece <http://traina-s-a-design-develop-company.webnode.gr/>

- Conducted static and dynamic analysis of steel structures, concrete structures, composite structures, masonry structures.
- Performed steel detailing and general arrangement drawings.
- Estimated material, construction, and labor costs, and project timescales.
- Evaluated tenders and provided recommendations.
- Negotiated with local contractors.
- Performed structural inspections/assessments and made appropriate recommendations.
- Liaising with architects.
- Provided expert technical advice including structural reports.

**CIVIL ENGINEER / SITE ENGINEER.**

2/06/2003-14/11/2003

K. ASHMAKOPoulos O.E Construction company. Patra. Greece

- Supervised the construction site of block of flats for residential buildings.

**CIVIL ENGINEER – POSTGRADUATE RESEARCH.**

1/02/2002-31/10/2003

Civil Engineer Department -University of Patras Greece–Committee of Research, Research Project 'K. Karatheodorhs'.

- Accomplished the Research program. 'Analytical and Experimental study of buckling of steel bars in concrete structures'.
- Conducted design and construction of specimens.
- Organized testing and process of the experimental results.
- Completed the analytical simulation and wrote conclusions.

## Education and Training

**Masters Degree in Infrastructure Work in Civil Engineering (3 yrs).**

Master thesis 'Experimental research of buckling of steel bars in concrete columns'

10/2001- 4/2004 University of Patras. Greece. Polytechnic school. Civil Engineer Department.

**Diploma of Civil Engineer (5 yrs).**

Diploma thesis ' Preliminary design of the deck of a prestressed concrete bridge. Analysis and design'

10/1996- 10/2001 University of Patras. Greece. Polytechnic school. Civil Engineer Department.

## Publications

- Experimental study of the effect of reinforcement stability on the capacity of reinforced concrete column'. S.Bousias , G.Konstantakopoulos. 13<sup>th</sup> World Conference on Earthquake Engineering. Vancouver B.C., Canada August 1-6 2004, Paper No. 770.

## Additional Information

- Nationality Greek. Member of EU. Eligible to live and work in the UK.
- Driving license. B' Category UK License.
- Chartered Engineer of Technical Chamber of Greece.
- Chartered Engineer. Member of ICE. CEng MICE.

- Member of Association of Qualified Civil Engineers of Greece.
- Service to the community. Military service to the Greek Air Force from 11/2003 until 12/2004 as sergeant.
- **Work portfolio available.** ([https://drive.google.com/file/d/1gmuuLqizLUj05zVvjgkqW0vwl-wc0cEi/view?usp=share\\_link](https://drive.google.com/file/d/1gmuuLqizLUj05zVvjgkqW0vwl-wc0cEi/view?usp=share_link))
- **Attribute achievement form for ICE member application available:**  
([https://drive.google.com/file/d/1Zez2kpDGnNCB9WIBZLQJq6IS-YkZZ-T6/view?usp=share\\_link](https://drive.google.com/file/d/1Zez2kpDGnNCB9WIBZLQJq6IS-YkZZ-T6/view?usp=share_link))