



# PAVLOS GKESOS

School of Civil Engineering, National Technical University of Athens  
Laboratory of Structural Analysis and Antiseismic Research  
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## Profile

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I am mainly interested in a range of Computational Engineering topics revolving around new solving algorithms. I'm in the first stage of my PhD and have delved into iterative algorithms and mainly bPCG. Furthermore, I am a member of the MGroup research team where I have the opportunity to develop, in a team environment, a multi-purpose finite element software (<https://github.com/mgroupntua/>) focused on the state-of-the-art for numerical topics around engineering applications.

## Education

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| <b>Ph.D. Candidate in Computational Mechanics</b><br>National Technical University of Athens<br>School of Civil Engineering<br>Laboratory of Structural Analysis & Antiseismic Research | Apr 2023 – present                         |
| <b>Diploma in Civil Engineering</b><br>National Technical University of Athens<br>School of Civil Engineering   | Oct 2019 – Oct 2022                        |
| <b>Technical School of Hellenic Army's Engineer Officers</b><br>Hellenic Military Academy ("Evelpidon")   | Sep 2010 – Feb 2013<br>Sep 1998 – Jun 2002 |

## Technical Skills & Others

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|-----------------------|---|
| Programming Languages | C++, Java, C#, PHP, Python, Octave, C, Assembly x86   |
| APIs                  | OpenGL, OpenCL, OpenMP                                |
| Scientific Software   | SAP2000   |
| Languages             | Greek (native), English (C1)                          |
| Military Service      | Active Officer (Lieutenant Colonel)<br>1998 – present |

## Papers in Conference Proceedings

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1. Ev. Sapountzakis, Vas. Tsipiras, P. Gkesos – Warping Transmission in 3-D Beam Element Including Secondary Torsional Moment Deformation Effect, DOI:10.7712/130113.4405.S2030, Jan 2014.

## **Working Experience**

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I am serving in the Greek Army as an Engineer Officer from 2002 until today. During my career I have built 3 metal bridges and a number of reinforced concrete projects, up to €60,000. I have once commanded a Facilities Maintenance / Construction Platoon and several times Engineer Machinery Squads. I have commanded an Independent Engineer Company from 2016 to 2018.

## **Memberships**

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Member of Technical Chamber of Greece

Jan 2023 – present