

## *Giannaros Efthimios*

*Dipl. Mechanical Engineer & Aeronautical*

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### ***Personal data***

Father's name : George  
Date of birth : 25- April-1989  
Place of birth : Patra, Greece  
Address : Ioannou diakidi 217 A', Patra  
Contact Numbers : (+30) 2610-640-851, (+30) 697-32-94-596  
Marital status : Unmarried  
Military Obligations : Completed  
E-mail : [efthimisgiannaros@gmail.com](mailto:efthimisgiannaros@gmail.com)  
Citizenship : Greek  
Member of Technical Chamber of Greece : Active

### ***Education***

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July 2014 - Present      ***PhD candidate***, Applied Mechanics Laboratory,  
University of Patras.  
***Subject area:*** *Composite materials behavior in high strain rate phenomena.*

October 2007 - October 2012      ***Diploma in Mechanical & Aeronautical Engineering***,  
University of Patras  
***Specialization:*** *Division of Energy, Aeronautics & Environment*  
***Thesis area:*** *Division of Applied Mechanics and Technology of Materials*  
Grade: 7.97 / 10.0

September 2004 – Sept. 2007      Graduate of «Peiramatiko» Senior High School of  
Lagoura, Patra  
Grade: 18.0 / 20.0

## ***Working Experience***

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November 2013 – Present

***Structural research engineer*** , Research and Development team (*R&D*) of *Applied Mechanics Laboratory*, University of Patras.

*Duties:*

- Engineering and scientific support on design & analysis of advanced structures for aeronautical applications
- Materials and Processes Development
- Testing and Material Characterization
- Reports -Technical Documentation

July 2010 – October 2010

***Assistant engineer***, Department of Power Grid Safety Hellenic Public Power Corporation.

*Responsibilities:*

- Checking of applications for renewable energy systems installation
- Checking electrical drawings, technical specifications of equipment, and topographical surveys

July 2007 – June 2010 &  
October 2010 -October 2012

***Assistant civil - survey engineer***, *Technical Office Giannaros Nikolaos*

*Main Duties:*

- Designing topographical surveys and buildings
- Measuring and positioning civil structures with GPS equipment
- Supervision of technical works

### *Publications*

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1. E.Giannaros, T.Kotzakolios, V.Kostopoulos. *Blast response of composite pipeline structure using finite element techniques*. Journal of composite materials, 2015, doi:10.1177/0021998315618768.  
<http://jcm.sagepub.com/content/early/2015/12/01/0021998315618768.refs>

### *Participation in Research Projects*

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1. Advanced technologies for bomb-proof cargo containers and blast containment units for the retrofitting of passenger airplanes. **FLY-BAG 2** project, 2/2014-9/2015.
2. Novel fabrics reinforcements combined with nanoparticle enhanced resins for the development of composite materials for high velocity impact energy absorption. **NANOBRAID** project, 3/2015-12/2015.
3. Dynamic loading-pushing the boundaries of aerospace composite material structures . **EXTREME** project, 10/15-Present.
4. Response of composite deployable booms subjected to HVI, 1/2016-Present.
5. **Diploma thesis:** *Structural analysis of a solar tracker system using finite element techniques methods*. Supervisor Professor V.Kostopoulos, Director of Laboratory of Applied Mechanics and Vibrations, 9/2011-9/2012.  
[http://www.mead.upatras.gr/uploads/theses/1304/POSTER%28GIANNAROS\\_EFTHIMIOS%295608.pdf](http://www.mead.upatras.gr/uploads/theses/1304/POSTER%28GIANNAROS_EFTHIMIOS%295608.pdf)  
<http://nemertes.lis.upatras.gr/jspui/handle/10889/6527?mode=full>

### *Specialized subject area*

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1. Structural analysis (static analysis, fatigue analysis, high strain-rate phenomena simulation) using finite element techniques
2. 2D & 3D design (Catia V5R19, Autodesk Inventor, and AutoCAD).
3. Motion analysis of mechanisms.
4. Programming milling machines (CAM).
5. Design of structures according with Eurocodes 1 & 3.
6. Electrical-Mechanical design for building industry.

### ***Distinctions***

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- Scholarship in first year of studies from Greek Scholarship Foundation.
- Scholarship and Praise in fourth year of studies as the best student from Road Safety Institute “Panos Mylonas”.

[http://www.ioas.gr/index.php?ID=latest\\_news&Rec\\_ID=4284](http://www.ioas.gr/index.php?ID=latest_news&Rec_ID=4284)

### ***Foreign Languages***

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- English (Proficient communication - Edexcel Level 5)
- French ( Basic level - A1 )

### ***Computer Skills-IT literate***

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- *Windows* : Microsoft Office
- *CAD Software* : Catia V5R19, Autodesk Inventor, AutoCAD.
- *Finite Element Analysis Software* : Msc. Patran-Nastran, Msc. Fatigue, Msc. Simxpert, Ls-Dyna.
- *CAM Software* : Delcam Feature Cam 2013
- *Programming Languages* : C++
- *Mathematical Softwares* : Matlab
- *Electromechanical studies software* : 4-M FINE
- *Electrical circuits Program* : Electronic-workbench
- *Manufacturing simulation software* : Extend 6
- *Steel structures design* : Autodesk Robot

### ***Seminars - Webinars***

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- Summer School - Fatigue and Damage Mechanics of Composite Materials (30 hours)
- Seminar - Health & Safety in working areas (12 hours)