

# ThanasisKotzakolios

## Curriculum Vitae

### Personal Details

<b>Date of Birth</b>	27 September 1982
<b>Marital Status</b>	Married
<b>Home Address</b>	14 DimodokouStreet, Patras, Greece, GR26242
<b>Office Address</b>	Applied Mechanics Laboratory, Mechanical Engineering and Aeronautics Dpt, University of Patras, PatrasUniv. Campus, Greece, GR26500
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### Education

<b>Present Day</b>	<b>-July 2011</b>	Post-Doc in Applied Mechanics Laboratory
<b>July 2006</b>	<b>-October 2006</b>	PhD in “ <b>Blast Response of Aircraft Structures</b> ”
<b>October 2000</b>	<b>- October 2006</b>	Mechanical Engineer Degree, Mechanical Engineering and Aeronautics Dpt, University of Patras (deg. 7.4/10).

**Relative work experience:** Senior Design & Analysis Engineer in Adamant Composites LTD.

### International Journal Publications

1. T.Kotzakolios, D. E. Vlachos, C. Derdas and V. Kostopoulos, On the blast response of sandwich aerospace composites, International Journal of Computer Aided Engineering and Technology, Article in press
2. T. Kotzakolios, D.E. Vlachos and V. Kostopoulos, “Blast response of metal composite laminate fuselage structures using finite element modeling”, Composite Structures 93, 2011, pp. 665–681
3. T. Kotzakolios, D.E. Vlachos and V. Kostopoulos, “Investigation of blast response of GLARE laminates: comparison against experimental results”, Plastics, Rubber and Composites, Volume 40, Numbers 6-7, September 2011 , pp. 349-355(7)
4. T.Kotzakolios, D. E. Vlachos, C. Derdas and V. Kostopoulos, “On the blast response of sandwich aerospace composites”, Aerospace Science and Technology, 2011, Article in press
5. D. Kakogiannis, D. Van Hemelrijck, J. Wastiels, S. Palanivelu, W. Van Paepegem, J. Vantomme, A. Kotzakolios, V. Kostopoulos, “Assessment of Pressure Waves Generated by Explosive Loading” CMES-Computer Modeling in Engineering & Sciences, 65 (2010) 75-93.

### International Conference Publications

1. T.Kotzakolios, D. E. Vlachos, V. Kostopoulos, “Blast Response of Composite Fuselage Structures Using Finite Element Modeling”, Deformation and Fracture of Composites Conference, (DFC10), 15-17 April 2009, Sheffield, UK
2. T. Kotzakolios, D.E. Vlachos, C. Derdas, V. Kostopoulos, “On the Blast Response of Sandwich Aerospace Composites”, 9<sup>th</sup> HSTAM International Congress on Mechanics, 12-14 July, Limassol, Cyprus
3. T.Kotzakolios, D. E. Vlachos, V. Kostopoulos, “Blast Response of GLARE Laminates Using Finite Element Analysis-Comparison with Experimental Results”,14<sup>th</sup> European Conference on Composite Materials (ECCM14), 7-10 June 2010, Budapest, Hungary
4. T.Kotzakolios, D. E. Vlachos, V. Kostopoulos, “Blast Response of Composite Fuselage Structures Using Finite Element Analysis”, 14<sup>th</sup> European Conference on Composite Materials (ECCM14), 7-10 June 2010, Budapest, Hungary
5. T.Kotzakolios, D. E. Vlachos, V. Kostopoulos, “On the Blast Response of Hardened Fuselage Structures”, 6<sup>th</sup> European Aeronautics Days (AERODAYS 2011), 30<sup>th</sup> March-1<sup>st</sup> April 2011, Madrid, Spain

6. Athanasios Kotzakolios, Dimitris E Vlachos, Vassilis Kostopoulos, "Crash Landing and Impact Performance Comparison Between Contemporary and Near Future All Composite Fuselage Structures Using Finite Element Analysis", International Crashworthiness Conference July 18-20, 2012 Milano, ITALIA
7. Kotzakolios Thanasis, Vlachos Dimitris, Kostopoulos Vassilis, "Hail impact damage of all-composite wafer aircraft panels", ICCS17, 17-20 June 2012, Porto, Portugal

**Participation in EU-Funded Research Projects**

1. VULCAN, "Vulnerability Analysis for Near Future Composite/Hybrid Aerostructures: Hardening Via New Materials and Design Approaches Against Fire and Blast Due to Accidents or Terrorist Attacks".
2. WASIS, "Wafer design Approach for Safety Increasing in worst case Situations minimizing joints".
3. FLY-BAG2, "Advanced technologies for bomb-proof cargo containers and blast containment units for the retrofitting of passenger airplanes"
4. FANTASSY, "Future Aircraft design following the carrier-pod concept as an enabler for co-modal seamless transport, passenger safety and environmental sustainability"

**Other R&T Research Projects**

**2003-2006** University of Patras Solar Car Team Member. Finite Element analysis & Construction.. The vehicle participated in the May 2004 FIA organized Alternative Energies Cup

**Work Experience**

**June-September 2003** Internship in Hellenic Defence Systems

**June-September 2004** Internship in FORTH-ICEHT

**Diploma Thesis**

- Analysis of Composite Plates, Shells and Helmets Subjected to Ballistic Impact by using Explicit Finite Element Codes (LS-DYNA). Supervisor : Professor V. Kostopoulos

**4<sup>th</sup> year Project**

- Design of a Composite Monocoque Chassis for Solar Race Car using Finite Element Analysis. Supervisor : Professor V. Kostopoulos

**Computer Literacy**

<b>Explicit Finite Element Analysis</b>	LS-DYNA3D
<b>Implicit Finite Element Analysis</b>	Ansys, MSc. Patran/Nastran,
<b>Mathematic Analysis Software</b>	Mathematica, Matlab
<b>Programming Languages</b>	Fortran, C
<b>Computer Aided Design Software (CAD)</b>	3DS Solidworks, DassaultSystemes CATIA, Autocad, Rhinoceros

**Languages**

<b>English</b>	Cambridge Proficiency , Michigan Proficiency
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**References**

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