


PERSONAL INFORMATION

Zoi Koutkalaki

 University of the Aegean, Department of Product and Systems Design Engineering, Ermoupolis, 84100, Syros

 (+30) 22810 97123

 zoikout@syros.aegean.gr

 Skype zoi.koutkalaki

Sex Female | Date of birth 04 March 1988 | Nationality Greek

POSITION

INDUSTRIAL DESIGN ENGINEERING

WORK EXPERIENCE

01 October 2012 – Present

Teaching

Auxiliary work in laboratory courses

- *Introduction to Computer Aided Design (CAGD) (Y, semester 3o)*
- *Computer Aided Design (Y, Semester 4o)*
- *Engineering Drawing (YEKII, Semester 8o)*

01 July 2013 – 01 November
2015

Freelancer - Researcher - Designer

Research work- Design work

Specialized project activities - Research and experimental development in other natural sciences and engineering.

01 April 2013 – 25 September
2015

External Contractor-Contractor

This research is co-financed by the European Union (European Social Fund - ESF) and Greek national funds through the Operational Program "Education and Lifelong Learning" of the National Strategic Reference Framework (NSRF) - Research Funding Program "ARISTEIA".

Development of cost-effective and accurate computer-aided design and engineering (CAD/CAE) tools for the determination and optimization of footwear comfort parameters (OPT-SHOES).

01 September 2011 – 31
December 2011

Main contractor

Special Research Account of the University of the Aegean, Syros (Greece)

Geometric modelling and photorealistic renderings of an ancient Greek Pentecoster

31 August 2009 – 28 February
2010

Industrial Designer (Practical experience)

Adamidis O.E., Ptolemaida (Greece)

Structural Glass Machinery

27 July 2008 – 24 August 2008

Office worker

DEI A.E, Ptolemaida (Greece)

Extraordinary office worker

EDUCATION AND TRAINING

- 14 December 2012 – Present **PhD Candidate**
 University of the Aegean, Hermoupolis, Syros (Greece)
Phd Thesis: *Three dimensional (3D) designing of the human foot and analysis on stresses and forces during walking with shoes*
- 02 February 2006 – 19 March 2010 **Graduate Studies (BSc)**
 Industrial Design Engineering Department, University of Applied Sciences (TEI), Western Macedonia, Kozani (Greece)
BSc Thesis: *Design an ecological child's dining seat*
- Scholarships
- 1st Scholarship from the IKY (Excellent first year performance in the Department's courses)
 - 2st Scholarship from the IKY (Excellent second year performance in the Department's courses)
 - Distinction award in studies and morals from the IKY (Second year)
- 06 October 2010 – 06 April 2012 **1st Post-graduate studies program (MSc): Design of Interactive & Industrial Products and Systems**
 University of the Aegean, Hermoupolis, Syros (Greece)
Msc Thesis: *Design of an ancient Greek Penteconter: Three-dimensional modelling, prototyping and photorealism.*

PERSONAL SKILLS

Mother tongue(s) Greek

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	B2	B2	B2	B2	B2
TOEIC					

Levels: A1/A2: Basic user - B1/B2: Independent user - C1/C2: Proficient user
Common European Framework of Reference for Languages

Communication skills Excellent collaboration with instructors and colleagues for the implementation of teamwork activities

Organisational / managerial skills

1. Demonstration working knowledge and expertise
2. Decision making
3. Ability to conduct and evaluate research

Job-related skills

1. Friendliness and ability to get along with others
2. Team leadership capabilities for coordination
3. Continuing personal development
4. Exceptional communication skills (listening, speaking, reading, and writing)
5. Personal and career planning skills

Computer skills Computer-Programs: Cambridge International Diploma in IT Skills (6 units)
 Diploma in information technology skills of Cambridge (6 modules)

IT Literacy & Skills: Ms Office, Unix, Mathematica, Ces Edupack, Spss 16, Lingo 10, Autocad 2007, Pro Engineer / Creo Parametric CAD / CAM / CAE, Minitab 13, Sap 2000 student, Turbo C + + 45, Ugs Nx 5.0, 3D Doctor (trial version), ITK-SNAP 2.4.0

ADDITIONAL INFORMATION

- Projects
- 2006: Design and construction of maquette stands for an outdoor poster
 - 2007: Design of a sidewalk for the blind
 - 2007: Design of a folding table outdoor
 - 2008: Design of a home cinema
 - 2008: Design and treatment milling of a steering car wheel
 - 2008: Design of storage space for food-vessel transfer
 - 2008: Design and construction kitchen layouts for household use
 - 2008: Design of a bike indoor
 - 2009: Design and optimization of a showerhead
 - 2009: Design of a wardrobe for outdoor use
 - 2009: Design and strength of the one ladder work-seat
 - 2009: Design an ecological child's dining seat
 - 2010: Design of a MP3 player
 - 2011: Design of a multimedia application for iPhone
 - 2011: Design of a unisex wristwatch
 - 2011: Design of a cup of coffee and tea
 - 2011: Evaluation of ergonomic design and usability of automatic ticket vendor and redesign
 - 2011: Design of a polyaptic booths for a theatre or a cinema
 - 2011: Design of a child's bottle: Prototyping and visualization
 - 2012: Design of an ancient Greek Penteconter: Three-dimensional (3D) modelling, prototyping and visualization
 - 2013-2015: Development of cost-effective and accurate computer-aided design and engineering (CAD/CAE) tools for the determination and optimization of footwear comfort parameters (OPT-SHOES).

PUBLICATIONS

1. **Koutkalaki Z.**, Papagiannis P., Azariadis P., Papanikos P., Kyratzi S., Zissis D., Lekkas D., Xidias E., Towards a foot bio-model for performing finite element analysis for footwear design optimization using a Cloud infrastructure, CAD'14, Hong Kong, China, June 23-26, 2014.
2. **Koutkalaki Z.**, Papagiannis P., Azariadis P., Papanikos P., Kyratzi S., Zissis D., Lekkas D., Xidias E., Towards a foot bio-model for performing finite element analysis for footwear design optimization using a Cloud infrastructure, CAD & A (Taylor & Francis), 2015, 1-12.
3. Papagiannis P., **Koutkalaki Z.**, Azariadis P., Papanikos P., Definition and Evaluation of Plantar Mechanical Comfort for the Support of Footwear Design, CAD & A (Taylor & Francis), Special Issue: Technologies for Human Centric Free-form Products, 2015, <http://dx.doi.org/10.1080/16864360.2015.1084189>.
4. Papagiannis P., **Koutkalaki Z.**, Azariadis P., Footwear Plantar Mechanical Comfort: Physical Measures and Modern Approaches To Their Approximation, The 5th International Conference on Advanced Materials and Systems, October 23rd–25th, 2014, Bucharest, Romania.
5. **Koutkalaki Z.**, Papagiannis P., Azariadis Ph., Papanikos P., Finite element evaluation of the mechanical behaviour of a detailed foot/footwear model, 6th International Conference on Mechanics and Materials in Design, P. Delgada/Azores/Portugal, 26-30 July 2015
6. **Koutkalaki Z.**, Azariadis Ph., Papanikos P., Parametric Study of the Effect of Sole's Materials on Plantar Pressure Distribution Using a Finite Element Foot-Footwear Model, The 3rd International Leather Engineering Congress, May 21-22, 2015 Izmir, Turkey.
7. Xidias E., **Koutkalaki Z.**, Papagiannis P., Papanikos P., Azariadis Ph., Foot Plantar Pressure Estimation using Artificial Neural Networks, 12th International Conference on Product Lifecycle Management, Doha (Qatar), Oct. 19-21, 2015 (Published at Product Lifecycle Management in the Era of Internet of Things, Volume 467 of the series IFIP

Advances in Information and Communication Technology, Springer,
http://dx.doi.org/10.1007/978-3-319-33111-9_3.2006:Design and construction of
maquette stands for an outdoor poster.