



## PROFILE

Athanasios Manavis is working as a freelance industrial designer (heptahedron.studio) and as an Adjunct Lecturer in the area of Product Design in the Department of Industrial Design Engineering, University of Western Macedonia, Greece (ide.uowm.gr).

He holds a PhD diploma in the area of Computational Product Design Methodologies based on Visual Branding Identities. He is a member of the CODE+ Lab (Computational Design & Digital Fabrication Laboratory). He holds a diploma in Industrial Design Engineering and a M.Sc. in Business Administration (MBA). He was a member in "List of Jury Members for the 2020 Good Design Awards".

Athanasios Manavis is a co-author of "Product Design Methodologies", "Product Design Tools" "Product Design and Prototyping" (Tziola Publications, 2020-2021).

## CONTACT

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# ATHANASIOS MANAVIS

Industrial Designer, Ph.D.

## EDUCATION

### [ 2020 – 2023 ]

Ph.D., Department of Product and Systems Design Engineering, University of Western Macedonia, Greece.

*"Computational Product Design Methodologies based on Visual Branding Identities."*

### [ 2013 – 2015 ]

M.Sc. in Business Administration, Western Macedonia University of Applied Sciences, Dept. of International Trade.

### [ 2004 – 2009 ]

B.Sc. in Industrial Design Engineering, Western Macedonia University of Applied Sciences, Dept. of Mechanical and Industrial Design Engineering

## EDUCATIONAL STUDIES

### [ 2020 ]

Training as a Trainer in Robotics, STEAM and 3D Printing Technologies, International Hellenic University

### [ 2013 ]

Pedagogical Training Program, School of Pedagogical and Technological Education

## EMPLOYMENT HISTORY

### [ 2019 – Today ]

Adjunct Lecturer, University of Western Macedonia, Dept. of Product and Systems Design Engineering, Greece.

*Theory and Methodologies of Product Design, Design History, Product Design, Computational Design and biomimicry, Packaging Design*

### [2018 – Today ]

Co-Founder & Creative Design Manager, heptahedron.studio, Product Design and Prototyping Studio

#### **[ 2016 – Today ]**

Adjunct Lecturer, University of Western Macedonia, Dept. of Product and Systems Design Engineering, M.Sc. in CAD/CAM Systems and Product Design, Greece

*Conceptual Product Design, Product Design, Reverse Engineering and Prototyping, Holistic Product Design*

#### **[ 2015 – 2019 ]**

Adjunct Lecturer, Western Macedonia University of Applied Sciences, Dept. of Mechanical and Industrial Design Engineering, (2015 - 2019). *Product Design Development*

#### **[ 2012 – 2018 ]**

Creative Design Manager, Center of Product and Packaging Design, Western Macedonia Technological Research Center, Greece.

### **TECHNOLOGY EQUIPMENT & SEMINARS**

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#### **[ 2022 ]**

Training of Roland TrueVIS VG2-640 by Atlas Digital.

#### **[ 2021 ]**

Training of CREATBOT D600 PRO (3D Printing) by Anima – The 3D Design Experts.

#### **[ 2018 ]**

Training of Boxford CAD / CAM software (Windows 10), operation and maintenance of CNC training machine tools: a) 160TCL b) 190VMC. Educational Systems L.T.D. (EDS).

#### **[ 2015 ]**

Training of Integrated Laser Cutting and Engraving System type VLS 4.60 (Universal Laser Systems).

3D SLS-2 Scanner Training by DAVID VISION SYSTEMS, by PV Engineering Co. Industrial Applications.

Training and Maintenance of 3D Cubicon Style Printer by DAVID VISION SYSTEMS ", by PV Engineering Co. Industrial Applications.

#### **[ 2014 ]**

Training at Trimble SketchUp Pro 2014 - Level 1, by Alldesign Hellas.

#### **[ 2013 ]**

Training of Z Scanner 800 System, by PV Engineering Co. Industrial Applications.

Training Seminar on the Use of 4 Component Rotational Dynamometer, NEOTEK.

### **BOOKS**

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#### **[ 2023 ]**

**Manavis A.**, Firtikiadis L., .Efkolidis N., Kyratsis P., "Free Hand Drawing", Tziolas Publications, ISBN: 978-618-221-055-0

#### [ 2022 ]

**Manavis A.**, Minaoglou P., Efkolidis N., Kyratsis P., "Product Design Tools – 2<sup>nd</sup> edition", Tziolas Publications, ISBN: 978-960-418-887-1

Efkolidis N., Kyratsis P., **Manavis A.**, "Product Design and Prototyping", Tziolas Publications, ISBN: 978-960-418-887-1.

#### [ 2021 ]

Efkolidis N., Minaoglou P., **Manavis A.**, Kyratsis P., "Product Design", Tziolas Publications, ISBN: 978-960-418-887-1

Efkolidis N., Kyratsis P., **Manavis A.**, "Product Design and Prototyping", Tziolas Publications, ISBN: 978-960-418-887-1.

#### [ 2020 ]

Kyratsis P., **Manavis A.**, Efkolidis N., "Product Design Methodologies", Tziolas Publications, ISBN: 978-960-418-885-7.

**Manavis A.**, Efkolidis N., Kyratsis P., "Product Design Tools", Tziolas Publications, ISBN: 978-960-418-886-4

### JOURNALS

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#### [ 2023 ]

Minaoglou P., Kakoulis K., **Manavis A.**, Kyratsis P., (2023), "Computational wearable design: shoe sole modelling and prototyping", International Journal of Modern Manufacturing Technologies (accepted for publication)

Kakoulis K., Konstantinidis P., **Manavis A.**, Kyratsis P., (2023), "A system for automatic dimensioning of mechanical drawings", International Journal of Modern Manufacturing Technologies (accepted for publication)

**Manavis A.**, Kakoulis K., Kyratsis P., (2023), "A brief review of computational product design: a brand identity approach", Machines 2023, 11(2), 232; <https://doi.org/10.3390/machines11020232>

#### [ 2022 ]

**Manavis A.**, Kakoulis K., Efkolidis N., Kyratsis P., (2022), "Brand identity for product design through computational design techniques", ACTA TECHNICA NAPOCENSIS, Series: Applied Mathematics, Mechanics and Engineering, 65(4S), 1221-1228.

**Manavis A.**, Tzotzis A., Tsagaris A., Kyratsis P., (2022), "A Novel Computational-based Visual Brand Identity (CbVBI) product design methodology", Machines, 10(11), 1065 <https://doi.org/10.3390/machines10111065>.

**Manavis A.**, Firtikiadis L., Spahiu T., Efkolidis N., Kyratsis P., (2022), "Parametric Architectural Design using shapes and structures", Journal of Graphic Engineering and Design, 13(4), 13-20.

#### [ 2021 ]

Tzotzis A., **Manavis A.**, Efkolidis N., Kyratsis P., (2021), "CAD-based automated G-code generation for drilling operations", International Journal of Modern Manufacturing Technologies, 13(3), pp. 177-184.

**Manavis A.**, Kyratsis P., (2021), "A computational study on product shape generation to support brand identity", International Journal of Modern Manufacturing Technologies, 13(1), 115-122.

Dobras M., **Manavis A.**, Kyratsis P., (2021), "Innovative packaging design", International Journal of Manufacturing Economics and Management, 1(1), 6-12.

#### [ 2020 ]

Spahiu T., Almeida H., **Manavis A.**, Kyratsis P., (2020), "Fashion products through digital manufacturing - a case study with FDM technology", Academic Journal of Manufacturing Engineering, 18(4), 63-72.

Malea A., Tzotzis A., **Manavis A.**, Kyratsis P., (2020), 'Innovative and sustainable toothpaste packaging design', Journal of Graphic Engineering and Design, 11(1), 19.

#### [ 2019 ]

Kyratsis P., **Manavis A.**, Gianniotis P., Ghiculescu L.D., (2019), 'A non conventional methodology for interior product design using conceptual design principles and parametric tools', Nonconventional Technologies Review, 23(4), pp. 16-21.

**Manavis A.**, Sourris Th., Dimou E., Efkolidis N., Kyratsis P., (2019), "An inspired from nature design methodology for in store displays", Journal of Packaging Technology and Research.

#### [ 2015 ]

Kyratsis P., Efkolidis N., **Manavis A.**, Tsagaris A., (2015) 'Design for Skin and Shape: An Innovative Design Approach', Applied Mechanics and Materials, Vol. 809-810 (Part 2), pp. 1311-1316.

Kyratsis P., Dimou E., **Manavis Ath.**, Bilalis N., (2015), 'An inspired from nature design methodology for the fashion industry', Applied Mechanics and Materials, Vol. 760, pp. 33-38.

Kyratsis P., **Manavis Ath.**, (2015), 'CAD based drilling simulations for Al7075', Applied Mechanics and Materials, Vol. 760, pp. 87-92.

#### [ 2014 ]

Kyratsis P., Dimou E., Efkolidis N., **Manavis Ath.**, (2014), 'Conceptual product design inspired from nature', Applied Mechanics and Materials, Vol. 657, pp. 1026-1030.

Kyratsis P., **Manavis Ath.**, Garcia-Hernandez C., Efkolidis N., (2014), 'Creative Design for Skin and Shape using advanced CAD systems', Applied Mechanics and Materials, Vol. 657, pp. 1021-1025.

Kyratsis P., Efkolidis N., **Manavis Ath.**, Asimopoulos N., (2014), 'The impact of green labeling to lifecycle thinking', International Journal of Product Design, Vol. 5(1), pp. 43-53.

#### [ 2013 ]

Kyratsis P., Efkolidis N., **Manavis Ath.**, Peristeri St., (2013), 'Design for Skin and Shape in the packaging industry', Academic Journal of Manufacturing Engineering, Vol. 11(4), pp. 56-61.

**Manavis A.**, Efkolidis N., Peristeri S., Kyratsis P., Asimopoulos N., (2013), 'Designing the visual identity of the Greek Goji Berry', The Cyprus Journal of Science, Vol. 11, pp. 129-141.

## CHAPTERS IN BOOKS

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### [ 2023 ]

Tsagaris A., Samaras V., **Manavis A.** Kyratsis P., (2023), "The design of human robotic interaction system", Chapter 4 included in the book Tzetzis D., Kyratsis P. (eds), Computer Aided Design.

Tsagaris A., Economou M., **Manavis A.**, Kyratsis P., (2023), "Design of gesture-controlled interface for mechatronic systems: A computational approach", Chapter 3 included in the book Kyratsis P., Manavis A. and Davim JP (eds), Computational Design and Digital Manufacturing, <https://doi.org/10.1007/978-3-031-21167-6>.

Tapoglou N., Efstathiou Chara, Tzotzis A., Kyratsis P., (2023), "Study of the topography of face milled surfaces using CAD-based simulation", Chapter 8 included in the book Kyratsis P., **Manavis A.** and Davim JP (eds), Computational Design and Digital Manufacturing, <https://doi.org/10.1007/978-3-031-21167-6>.

Kladovasilakis N., Kosmidis G., Kyratsis P., Tzetzis D., (2023), "Topology optimization utilizing density-based approach for additive manufactured components: a case study of an automotive brake caliper", Chapter 4 included in the book Kyratsis P., **Manavis A.** and Davim JP (eds), Computational Design and Digital Manufacturing, <https://doi.org/10.1007/978-3-031-21167-6>.

### [ 2021 ]

Spahiu T., **Manavis A.**, Efkolidis N., Kyratsis P., (2021), "3D printing for fashion related products", Chapter 2 included in the book by Andrzej Wrobel and Marek Wylezol (eds) Selected Applications of Additive Technologies, ISBN 978-83-60759-28-8.

### [ 2016 ]

Dimou E., **Manavis A.**, Papachristou E., Kyratsis P. (2016), 'A conceptual design of intelligent shoes for pregnant women', Included in the book Business Models and ICT Technologies for the Fashion Supply Chain, edited by R. Rinaldi and R. Bandinelli, Springer International Publishing (ISBN: 978-3-319-48510-2).

## INTERNATIONAL CONFERENCES

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### [ 2023 ]

Tzotzis A., **Manavis A.**, Sarris I., Kyratsis P., (2023), "The effects of the drill microgeometry on the induced thrust force and cutting torque", Joint International Conference 10th Textile Conference & 4th Conference on Engineering and Entrepreneurship, Albania.

### [ 2022 ]

**Manavis A.**, Efkolidis N., Kakoulis K., Kyratsis P., (2022), "THE "DO-IT-YOURSELF (DIY)" BRAND DESIGN STRATEGY THROUGH COMPUTATIONAL DESIGN TOOLS" International Symposium on Graphic Engineering and Design 2022 (GRID 2022), Novi Sad, Serbia. doi: <https://doi.org/10.24867/GRID-2022-p75>

**Manavis A.**, Minaoglou P., Firtikiadis L., Efkolidis N., Kyratsis P., (2022), "Computational customized shoe-sole design: a branding-based approach", V International Conference "Contemporary Trends and Innovations in the Textile Industry (CT&ITI 2022), Serbia.

#### [ 2021 ]

Aidinli K., Minaoglou P., **Manavis A.**, Spahiu T, Kyratsis P., (2021), "Computational based product design: a 2D-pattern related case study", 9th International Textile Conference & 3rd International Conference on Engineering and Entrepreneurship 2021 (9th ITC & 3rd ICEE 2021), Albania.

Spahiu T., Almeida H., **Manavis A.**, Kyratsis P., Kazlacheva Z., (2021), "Product customization - A growing trend in fashion industry", IV International Conference "Contemporary Trends and Innovations in the Textile Industry (CT&ITI 2021), Serbia.

Spahiu T., **Manavis A.**, Kazlacheva Z., Almeida H.A., Kyratsis P., (2021), "Industry 4.0 for fashion products – Case studies using 3D technology", International Conference on Technics, Technologies and Education (ICTTE 2020), Yambol, Bulgaria.

#### [ 2020 ]

Kyratsis P., Tzotzis A., **Manavis A.**, (2021), "Computational Design and Digital Fabrication", Recent Advances in Manufacturing 2020 (RAM 2020), India.

**Manavis A.**, Nazlidou I., Spahiu T., Kyratsis P., (2020), "Jewelry design and wearable applications: a design thinking approach", International Symposium on Graphic Engineering and Design 2020 (GRID 2020), Novi Sad, Serbia.

Spahiu T., **Manavis A.**, Kazlacheva Z., Almeida H.A., Kyratsis P., (2020), "Industry 4.0 for fashion products – Case studies using 3D technology", International Conference on Technics, Technologies and Education (ICTTE 2020), Yambol, Bulgaria.

**Manavis A.**, Minaoglou P., Tzetzis D., Efklidis N., Kyratsis P., (2020), "Computational design technologies for interior designers: a case study", Computing and Solutions in Manufacturing Engineering (COSME 2020), Brasov, Romania.

Chatzikyrkou M., **Manavis A.**, Minaoglou P., Efklidis N., (2020), "A Pedagogical Methodology for Introducing CAD Modeling Tools and 3D Printing Technologies to Adult Trainees", 7th International Conference of Materials and Manufacturing Engineering (ICMMEN 2020)

**Manavis A.**, Kapakiari N., Antoniadis I., Kyratsis P., (2020), "Industrial design in event tourism marketing: the case of Thessaloniki International Film Festival Pavlion", 8th ICSIMAT, Northern Aegean, Greece.

#### [ 2017 ]

**Manavis A.**, Pliatsios G., Dimou E., Korlos A., Kyratsis P., "Transform objects: the influence of unruly product design", 21th Innovative Manufacturing Engineering and Energy Conference (IManEE 2017), Romania, 2017.

Tzintzi V., **Manavis A.**, Efklidis N., Dimopoulos C., Kakoulis K., Kyratsis P., "Conceptual design of jewellery: a space-based aesthetic approach", 21th Innovative Manufacturing Engineering and Energy Conference (IManEE 2017), Romania, 2017.

#### [ 2013 ]

Efklidis N., **Manavis A.**, Sirganis K., Kyratsis P. "Sustainable product design of domestic products", 1st International Conference on Applied

Innovation: Problems and perspectives of innovative entrepreneurship in Greece within the international environment, Arta, Greece, 2013.

**[ 2009 ]**

Mousli, A., **Manavis, A.**, Dinopoulou V., Kyratsis, P. "Innovative packaging design for the wine industry", 2nd International Conference in Food Contact Polymers 2009 (FCP 2009), Brussels, Belgium, 2009.

## **INTERNATIONAL DISTINCTIONS**

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**[ 2020 ]**

Jury Member for the 2020 Good Design Awards (<https://www.good-designawards.com/jury.html>)

## **INDUSTRIAL DESIGNS REGISTERED WITHIN THE GREEK PATENT OFFICE**

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**[ 2009 ]**

Mousli A., **Manavis Ath.**, Dinopoulou V., Kyratsis P., "Wine packaging", The Greek Patent Office (OBI), Certificate No: 6002847, 2009.

**[ 2008 ]**

Apostolou Ch., Mousli A., **Manavis Ath.**, Dinopoulou V., Kyratsis P., "Packaging for home sweets" The Greek Patent Office (OBI), Certificate No: 6002817, 2008.

## **ART PROJECTS**

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**[ 2020 ]**

Firtikiadis L., Aidinli K., Manavis A., Efkolidis N., Kyratsis P., "De[sign] Constructions" (Photography), 5th Festival of Applied Arts, Orneraki's Applied Arts Center, Athens, September 2020.

Kyratsis P., Efkolidis N., Manavis A., P. Minaoglou, A. Firtikiadis L., Aidinli K. & V. Sentzas, S. Papadopoulou, H. Kondosphiris, "The body of the underground bride – Andromana" (Art-installation, 3D Printing, Laser Engraving, Mix Art), Etchink Art Space, Athens 13/3 – 14/4/2020

Kyratsis P., Efkolidis N., Manavis A., P. Minaoglou, "Bio:lin" (Computational Design, 3D printing, Product Design), Energy Athens 2020, The European Centre Athens, 24/01 – 08/03/2020 [poster]

**[ 2019 ]**

Kyratsis P., Efkolidis N., Manavis A. (heptahedron.studio), A. Firtikiadis L., Aidinli K., "Patent-Art" (Photography), 4th Festival of Applied Arts, Orneraki's Applied Arts Center, Athens, 28-29/09/2019.

Kontosphyris H., Naipilis D. Kyratsis P. (Efkolidis N., Manavis A., Minaoglou P., Plaka K., Firtikiadis L., Aufheimer O.A.), "The Holy Grail" (Computational Design and 3D Printing), Quest for The Holy Grail, The Project Gallery - Athens (Art Curator: Nikolaos Giavropoulos), 13/04 - 04/05/2019.

**[ 2018 ]**

Kyratsis P., Efkolidis N., Manavis A. (heptahedron.studio), Patsiouras P., Sourris Th., "We Are The Products: Industrial Design Timeline" (Illustrations, Wood Panels, Laser Engraving), 3rd Festival of Applied Arts, Orneraki's Applied Arts Center, Athens, 29-30/09/2018. [poster]

Kontosphyris H., Kyratsis P. (Aufheimer O.A., Efklidis N., Kampouridou A., Manavis A., Minaoglou P., Plaka K., Rompolas A.), "In Wonder Woman We Trust" (Three-dimensional digital clay modelling and 3D Printing), Prossalendi's Britannia - Contemporary Perspective, Ionian Academy - Corfu (Art Curator: Megakles Rogakos), 1-24/09/2018. [poster]