

## George Tryfonos, Ph.D.



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<https://www.researchgate.net/profile/George-Tryfonos>  
 💬 **Skype** gt.arch4d@outlook.com  
**Sex** Male | **Date of birth** 6 Aug. 1987 | **Nationality** Greek Cypriot

George Tryfonos, PhD is Special Scientist at University of Cyprus (UCY). He holds a B.Sc. in Architecture (2011) and a Diploma of Architect – Engineer (2012), both degrees obtained by the University of Cyprus (UCY). He received his PhD in January 2019 from the Department of Architecture, UCY. His research activities focus on **advance fabrication and processing, robotics in architecture and construction digitization on Building Information Modelling (BIM)** using data from new technologies such as **3D laser scanning, embedded computation, and photogrammetry**. George has over than 7 years of teaching experience and research, including teaching design media methodologies such as parametric design, digital fabrication, embedded computations, robotic tools development and BIM. In addition, he is a member of Research and Innovation Committee of Cyprus Scientific Technical Chamber, a professional **training instructor of Human Resource Development Authority of Cyprus (HRDA)** at the area of BIM and certified reviewer at the international journals Additive Manufacturing Elsevier B.V. and Materials & Design Elsevier B.V. His research area focuses on **BIM integration on material simulation, 3D advance parametric and form-finding, industrial robotics tools development for material control, 3D printing in construction industry and 3D digitisation** at cultural heritage publishing and presenting research in scientific journals and conferences. Using advanced design tools for BIM, parametric design, automation systems, real time robot control, CNC programming, 3D printing and optimization has conducted collaborations for architectural designs projects, industrial collaborations, architectural competitions, tutorials, professional training to engineers and architects and digital fabrication research on digitization, modelling and fabrication.

### EDUCATION AND CERTIFICATIONS

- |      |   |
|------|---|
| 2019 | <b>Ph.D. in Architecture</b><br>Department of Architecture, University of Cyprus, Nicosia, Cyprus<br><i>PhD title: An Integrated digital design and robotic fabrication process of tensile mesh structures</i><br><i>Supervisor: Odysseas Kontovourkis, Assistant Professor</i>                                   |
| 2017 | <b>Professional Training Instructor of Human Resource Development Authority of Cyprus (HRDA)</b> EEK: E001722   |
| 2013 | <b>Member of Cyprus Scientific Technical Chamber (ETEK)</b>   |
| 2012 | <b>Integrated Master – Five Year Diploma of Architecture Engineer</b><br>Department of Architecture, University of Cyprus, Nicosia, Cyprus<br><i>Thesis: “Air Adaptive Shelter” - Adaptive and Interactive Architecture and Embedded systems</i><br><i>Supervisor: Odysseas Kontovourkis, Assistant Professor</i> |
| 2011 | <b>Bachelor of Science Degree in Architecture</b><br>Department of Architecture, University of Cyprus, Nicosia, Cyprus  |

### RESEARCH AND MENTORING WORK EXPERIENCE

- |           |   |
|-----------|---|
| 2021-2023 | <b>Part-time 2021, Department of architecture, University of Cyprus, Nicosia, Cyprus, Energy and Environmental Design of Buildings Research Lab</b> |
|-----------|---|

**Research program: Interreg VA Greece-Cyprus 2014 – 2020, C-IZEBs - Cooperative Intelligent education & electromobility Zero Energy Buildings**

- Type: European
- Funding: Co-financed by the European Union (ERDF) and by National Resources of Greece and Cyprus
- Affiliated Organization: Department of architecture, University of Cyprus
- Coordinator: Ministry Of Education, Culture, Sports And Youth of Cyprus
- Managing the digitization of the school Archbishop Makariou C, Platy Aglantzia, Nicosia, Cyprus for the energy update
- BIM digitisation (as build) of the school Archbishop Makariou C, Platy Aglantzia, Nicosia, Cyprus
- Design and construction of a 2 e-car charging station
- Participate in conference publications and presentations.
- Internet access: <http://www.greece-cyprus.eu/>

**Member of Research and Innovation Committee of Cyprus Scientific Technical Chamber (ETEK)**

**Bachelor Thesis Co-Supervisor and assistant. Department of Electrical Engineering and Computer Engineering and Informatics, Cyprus University of Technology, Limassol, Cyprus**

**Supervisor:** Dr. Marinos Ioannides, Assistant Professor, Head of the UNESCO Chair on Digital Cultural Heritage

- **Thesis name:** Solving History 3D Video Game  
Students: Prodromos Pieri, Filippas Savva, Marios Koundouris
- **Thesis name:** Creating an Integrated Computer System for Automatic Storage and Archiving of 3D Objects,  
Students: Anastasiou Anastasis, Apostolou

2020

**Part-time - 2021, Fulltime – 2020, Department of Electrical Engineering and Computer Engineering and Informatics, Cyprus University of Technology, Limassol, Cyprus**

**Research program: Interreg VA Greece-Cyprus 2014 – 2020, DigiArc**

- Type: European
- Funding: Co-financed by the European Union (ERDF) and by National Resources of Greece and Cyprus
- Affiliated Organization: Cyprus University of Technology, Digital Heritage Lab, Country: Cyprus
- Coordinator: Hellenic Republic, Ministry of Culture and Sports, Greece
- Conference organizing
- Managing the digitization of eight Cyprus monument using Building Information modelling (BIM)
- Deliverable managing
- Participate in conference publications and presentations.
- Internet access: <http://greece-cyprus.eu/>

**Research program: Europeana Archaeology**

- Type: European
- Funding: Co-financed by the connection Europe facility of the European Union.
- Affiliated Organization: Cyprus University of Technology, Digital Heritage Lab, Country: Cyprus
- Coordinator: Vilnius University, Lithuania

- BIM and H-BIM contest creator for Data Archiving (Kolossi and Paphos Castle)
- Internet access: <https://europeanaarchaeology.carare.eu/>

**Research Program: OPHERA-OPening cultural HERitage**

- Type: European
- Funding: Co-funded by the Creative Europe Programme of the European Union
- Affiliation Organisation: Cyprus University of Technology, Digital Heritage Lab, Country: Cyprus
- Coordinator: Segretariato Regionale del Ministero della Culture per le Marche, Itali
- OPHERA-OPening cultural HERitage to communities during the central-Italy post-earthquake long-term restoration process: digital technologies and new competencies for cultural professionals.
- Workshop organisation committee, workshop support and Workshop presentation (<https://ophera.beniculturali.it/en/180/ws1-limassol-cyprus-online>)
- Internet access: <https://ophera.beniculturali.it/en/1/home>

**Conference Organizing Committee: 8th International Euro-Mediterranean Conference (EuroMed 2020).**

**Research proposal and deliverable assistant.**

**Digitization and advance modelling of Cyprus Medieval Churches.**

- BIM, H-BIM modelling and Animation
- 3D laser digitisation and photogrammetry
- Contest creation and presentations
- 2D and 3D Architecture drawings

2019

**Self-Funded Research Projects - Cinergon**

- Type: Start-up
- Funding: Self-Funded
- Affiliation Organisation: S.K. Euromarket LTD
- Coordinator: George Tryfonos and Andreas Kyriakou
- Plastic recycling 3D printing. The development of a flakes – pellet thermoplastic extruder for small to large scale projects and the parametric direct 3d printing from modelling software.
- Internet access: <https://www.facebook.com/cinergon>

**Department of architecture, University of Cyprus, Nicosia, Cyprus**

**Diploma Thesis Third Supervisor. ARH-503 - Diploma Thesis: Topology Optimization in 3D Printed construction Shells.**

Student: Christos Georgiou.

2018

**Research Assistant, Digital Developments in Architecture and Prototyping (d<sup>2</sup>AP) Lab University of Cyprus, Nicosia, Cyprus**

Coordinator: Odysseas Kontovourkis, Assistant Professor

- Development of a 3d clay printing industrial robotic mechanism

**Part of the Assistant team, Sustainable Computational Workflows: Computational Design and Fabrication towards Sustainable Products and Processes - 6th eCAADe Regional International Symposium 2018, department of Architecture, University of Cyprus**

Symposium Chair: Odysseas Kontovourkis, Assistant Professor

2017

**Department of architecture, University of Cyprus, Nicosia, Cyprus**

**Research program - Optimization Driven Architectural Design of Structures - OptArch**

- Type: European

- Funding: External Funding Authority: European Commission, H2020 - MSCA - RISE -2015
  - Role: Participant-Member of the Research Team (01.01.2017 - 31.01.2018)
  - Affiliated Organization: University of Cyprus, Country: Cyprus
  - Coordinator: National technical University of Athens, Greece
  - Internet access: <http://optarch.ntua.gr>
  - Description: Optimization Architectural Design of Structures
- Research Assistant, Digital Developments in Architecture and Prototyping (d<sup>2</sup>AP) Lab University of Cyprus, Nicosia, Cyprus**  
Coordinator: Odysseas Kontovourkis, Assistant Professor
- Development of a timber cutting industrial robotic mechanism and construction of a timber structure
- 2016 **Department of architecture, University of Cyprus, Nicosia, Cyprus**  
**Diploma Thesis Third Supervisor.** ARH-503 - Diploma Thesis: Robotic fabrication and additive manufacturing using industrial robotic simulation tools.  
Student: Philip Michael.
- 2015 **Department of architecture, University of Cyprus, Nicosia, Cyprus**  
**Diploma Thesis Third Supervisor.** ARH-503 - Diploma Thesis: Production of emergent, non-conventional forms using computational tools.  
Student: Ifegenia Lambrou
- 2012 **Research Assistant, University of Cyprus, Nicosia, Cyprus**  
Coordinator: Professor Marios C. Phocas
- 'Parametric and Structural Analysis of hanging hybrid systems'.
- 2012-2010 **Mesarch: Research Laboratory on Modern Architecture, Department of architecture, University of Cyprus, Nicosia, Cyprus**  
Coordinator: Panagiota Pyla, Associate Professor
- Model and animation of Post-Independence Modernism and Nation-Building in Cyprus using drawings and photographic material.

## PUBLICATIONS

### Journals

- 2022
- Themistocleous K., Ioannides M., Tryfonos G., Pritchard D., Cliften H., Katiri M., Jončić N., Osti G., Rigauts T., Ripanti F., Anayiotos A., "HBIM for cultural heritage: the case study of Panayia Karmiotissa church," Proc. SPIE 12268, Earth Resources and Environmental Remote Sensing/GIS Applications XIII, 122680B, <https://doi.org/10.1117/12.2636331>
- 2021
- Tryfonos G., Ioannides M., Anastasi A.G., Apostolou, V.A., Pieri P.P., Koundouris M.A., Savva F.G. **Cultural heritage monument documentation through adaptive parametric design process**, Int. Arch. Photogramm. Remote Sens. Spatial Inf. Sci., XLVI-M-1-2021, 769–776, <https://doi.org/10.5194/isprs-archives-XLVI-M-1-2021-769-2021>, 2021.
  - Kontovourkis, O. and Tryfonos, G., 2021. **Multi-objective optimisation of tensile mesh structures for toolpath generation and robotic fabrication**. International Journal of Space Structures (accepted for publication)
- 2019
- Kontovourkis, O., Phocas, M. C., Tryfonos, G., & Georgiou, C. (2019). **Multi-axis 3D printing of material reduced shell structures on a reconfigurable supporting system using topology optimization principles**, Procedia Manufacturing, Elsevier, <https://doi.org/10.1016/j.promfg.2020.02.280>.

- Kontovourkis, O., Tryfonos, G and Georgiou, C., **Robotic Additive Manufacturing (RAM) with clay using Topology Optimization principles for toolpath planning: the example of a building element**, Architectural Science Review, Taylor & Francis Online DOI: 10.1080/00038628.2019.1620170
- Kontovourkis, O. and Tryfonos, G., 2018. **Robotic 3D clay printing through a parametric integrated algorithm for toolpath planning and operation control**, Automation in Construction, Elsevier, <https://doi.org/10.1016/j.autcon.2019.103005>
- 2018 • Tryfonos, G., 2018. **Automated robotic toolpath generation of elastic mesh structure**. ArchiDOCT, Intelligence, 6(1), pp. 65-77, ISSN: 2309-0103
- 2016 • Kontovourkis, O., Tryfonos, G., 2015. **Design optimization and robotic fabrication of tensile mesh structures**: The development and simulation of a custom-made end-effector tool. International Journal of Architectural Computing. 2016. DOI: 10.1177/1478077116670742; 24
- 2013 • Kontovourkis, O., Phocas, M.C., Tryfonos, G., **Prototyping of an Adaptive Structure based on Physical Conditions**. Architectural Computing, Multi-Science Co., Vol. 11, No. 2, pp. 205-226, June 2013 [22 p.] DOI: 10.1260/1478-0771.11.2.205

### Conference Proceedings

- 2021 • Tryfonos G. Ioannides M. Kondouris M. **The Digitization, Preservation, Protection and Promotion of Medieval Cultural heritage in Cyprus**, 4th International Symposium of ICOMOS Slovenia - Resilient Heritage, 16–18 September 2021, Ljubljana, Slovenia (in publication process)
- Kontovourkis, O., Tryfonos, G. **A hybrid robotic construction approach in large scale: The example of a tree-like timber branching structure development**, eCAADe 2021 – Towards a new, configurable architecture, 8-10 September 2021, Faculty of Technical Sciences, University of Novi Sad, Serbia
- 2019 • Kontovourkis, O., Tryfonos, G and Konatzii, P. **A review on environmental and economic potential of robotic construction in actual scale driven by structural optimization**, Form and Force, IASS Annual Symposium 2019 – Structural Membranes, 7 - 10 October 2019, Barcelona, Spain
- 2018 • Kontovourkis, O. and Tryfonos, G., 2018. **Integrating parametric design with robotic additive manufacturing for 3D clay printing: An experimental study**. Proceedings of the 35th International Symposium on Automation and Robotics in Construction, Berlin, Germany.
- Kontovourkis, O., Tryfonos, G., 2018. **An integrated robotically-driven workflow for the development of elastic tensile structures in various scales**, O. KONTOVOURKIS, ed. In: Sustainable Computational Workflows: Computational Design and Fabrication towards Sustainable Products and Processes - 6th eCAADe Regional International Symposium 2018, 24th-25th May 2018, Nicosia, Cyprus, pp. 111-120.
- 2015 • Kontovourkis, O., Tryfonos, G., 2015. **Robotic Fabrication of Tensile Mesh Structures and Real Time Response**. The Development and Simulation of a Custom-Made End Effector Tool. In: B. Martens, G. Wurzer, T. Grasl, W. E. Lorenz, R. Schaffranek, eds. Proceedings of the 33th Conference on Education in Computer Aided Architectural Design in Europe: Real Time - Extending the Reach of Computation (Volume 2). Wien: Technical University of Wien, pp. 389-398

- Kontovourkis, O., Tryfonos, G., 2015. **An additive robotic fabrication methodology for tensile mesh structures development.** Proceedings of the International Association of Shell and Spatial Structures (IASS) 2015 Annual Symposium on Future Visions. Amsterdam, The Netherlands [11 p.]
- 2014 • Kontovourkis, O., Tryfonos, G., 2014. **Physical input-driven offline robotic simulation through a feedback loop process.** In: E. M. Thompson, ed. Proceedings of the 32th Conference on Education in Computer Aided Architectural Design in Europe: Fusion - Data Integration at its best (Volume 1). Newcastle upon Tyne: Northumbria University, pp. 411-421
- 2013 • Kontovourkis, O., Phocas, M.C., Tryfonos, G., **Adaptive Prototyping Process as Mechanism towards a Holistic Architectural Design.** Stacey, M., (ed.), Prototyping Architecture: The Conference Papers, Building Centre Trust, London, pp. 92-105, February 2013 [14 p.]

### UNIVERSITY TEACHING EXPERIENCE

- 2023-current **Department of architecture, University of Cyprus, Nicosia, Cyprus**  
Special Scientist for the ARH301.1 – Architectural Design VI – Architectural Technology (Spring semester)  
Special Scientist for the APH 331.1– Construction - Building Technology (Spring semester)
- 2022 **Department of architecture, University of Cyprus, Nicosia, Cyprus**  
Special Scientist for the APH 530, Advanced Building Technology (Spring semester). Architectural design and construction digitization using BIM methodology.
- 2017 - 2023 **Department of architecture, University of Cyprus, Nicosia, Cyprus**  
Special Scientist for the ARH 123, Computer-aided Technical Drawing, 2D CAD and 3D BIM (Spring semester)
- 2018 **Department of architecture, University of Cyprus, Nicosia, Cyprus**  
Special Scientist for the ARH301.1 – Architectural Design VI – Architectural Technology (Spring semester)  
**Department of architecture, University of Cyprus, Nicosia, Cyprus**  
Special Scientist for the ARH550 - Specific Topics Recording and Documentation of Buildings and Sites (Spring semester) – 3D scanning of Church buildings using photogrammetric process.  
<https://ucy.ac.cy/conservation/structure-courses>
- 2016-2014 **Department of architecture, University of Cyprus, Nicosia, Cyprus**  
Special Scientist for the ARH123 – Designs 2D CAD and 3D BIM (Spring semester)  
**Department of architecture, University of Cyprus, Nicosia, Cyprus**  
I Special Scientist for the ARH320 – Digital Designs using BIM (Fall semester)
- 2016-2011 **Department of architecture, University of Cyprus, Nicosia, Cyprus**  
Teaching assistant and fabrication lab manager for the undergraduate courses:
  - ARH220 - Digital Architectural Communication Media (Fall semester)  
Instructor: Odysseas Kontovourkis, Assistant Professor
  - ARH421 - Advanced Computer-Aided Design (Spring semester)  
Instructor: Odysseas Kontovourkis, Assistant Professor
3D Modeling and fabrication course tutorials:
  - Odysseas Kontovourkis, PhD., George Tryfonos 'Rhinoceros 4, Panelling Tools and Rapid Prototype (Part 1)' Department of architecture, University of Cyprus Nicosia, Cyprus, 2012

- Odysseas Kontovourkis, PhD., George Tryfonos 'AutoCAD Architecture Tutorial - Essential Training' Department of architecture, University of Cyprus Nicosia, Cyprus, 2011
- Odysseas Kontovourkis, PhD., Ioanna Theodosiou, George Tryfonos 'Allplan Tutorial - Essential Training' Department of architecture, University of Cyprus Nicosia, Cyprus, 2011

## REVIEWS, AWARDS AND SCHOLARSHIPS

- 2022 **First Prize in Architectural Competition**  
Collaboration with M.C. Phocas and Oikonomides Demetris for the competition 'of Primary school of Agios Antonio masterplan
- 2019 **Certified reviewer at Additive Manufacturing**  
Additive Manufacturing, Elsevier, ISSN: 2214-8604  
<https://www.journals.elsevier.com/additive-manufacturing>
- 2013 **Scholarship for doctorate studies**  
Scholarship from Cyprus State Scholarship Foundation for doctorate degree in Cyprus and abroad for the calendar year 2013
- Scholarship for graduate studies**  
Scholarship from Graduate studies, University of Cyprus for the academic year 2013/14
- 2012 **Second Prize in Architectural Competition**  
Collaboration with M.C. Phocas Architects-Engineers for the competition 'European Architectural Competition for Morfou's Municipality and Cultural Center' in Cyprus
- Honour Mention for the annual Award 'Lambrou and Thalia David for Distinction in Architecture Synthesis'**  
Distinction for the final diplomatic work in Architecture Synthesis and overall score in the academic year 2011-2012
- Honour Mention in Architectural Competition**  
Collaboration with 'IMA Architectural Studios - Ierides & Michael Architects' and Christos Hadjichristos for the competition 'Architectural Competition for the new offices of Cooperative Central Bank Ltd' in Cyprus
- 2011 **Third Prize in Architectural Competition**  
Collaboration with M.C. Phocas Architects-Engineers and 'IMA Architectural Studios - Ierides & Michael Architects' for the competition 'Cyprus architecture Competition for the construction of two footbridges in Paphos municipality' in Cyprus
- 2007 **Honour "Civil Engineers Association and Architects Association"**  
Distinction in Architectural Design I and II during the academic year 2007-2008

## CONFERENCE AND WORKSHOP PRESENTATIONS AND EXHIBITIONS

- 2021
- **Conference presentation: 4th International Symposium of ICOMOS Slovenia - Resilient Heritage Preservation** Presentation: "Protection and Promotion of Medieval Cultural heritage in Cyprus" 17 September 2021, Ljubljana, Slovenia. <http://en.icomos.si/4th-international-symposium-of-icomos-slovenia/>
  - **Conference presentation: 28<sup>th</sup> International Committee of Architectural Photogrammetry 2021 (28th CIPA2021) Symposium**, Presentation: "Cultural heritage monument in documentation through adaptive parametric design process", 30 September 2021, Tsinghua University, Beijing, China. <http://www.cipa2021.org/>
  - **International Workshop presentation: 1<sup>st</sup> OPHERA online Workshop OPHERA - Digital technologies for knowledge and promotion of**

- cultural heritage during the restoration & reconstruction process, OPHERA-OPening cultural HERitage**, Presentation: Digitisation, Preservation and Protection of Cultural Heritage in Cyprus An approach for preventing conservation Interreg VA Greece – Cyprus, DigiArc', 17 - 21 May 2021, Limassol, Cyprus  
<https://ophera.beniculturali.it/en/180/ws1-limassol-cyprus-online>
- 2018 **Conference Presentation: eCAADe RIS 2018, Sustainable Computational Workflows Conference Presentation**, Presentation: An integrated robotically-driven workflow for the development of elastic tensile structures in various scales, University of Cyprus, Nicosia, Cyprus
- 2015
- **Conference: Real Time, eCAADe 2015 - 33rd Annual Conference**, Presentation 'Robotic Fabrication of Tensile Mesh Structures and Real Time Response', Vienna University of Technology, Vienna, Austria
  - **Conference: Future Visions, IASS 2015 Annual Symposium - International Association of Shell and Spatial Structures**, Presentation 'An additive robotic fabrication methodology for tensile mesh structures development', Amsterdam, The Netherlands
- 2014 **Conference: 'Fusion', eCAADe 2014 - 32rd Annual Conference**, Presentation: 'Physical input-driven offline robotic simulation through a feedback loop process', Northumbria University, Newcastle, United Kingdom
- 2013
- **Exhibition: 'Research by Design. Thesis 2012, Department of Architecture, University of Cyprus'**, Attendance in international exhibition in Cyprus House, New York with Diploma project 'Air Adaptive Shelter'
  - **Conference: 'Prototyping Architecture Conference'**, Presentation: 'Adaptive Prototyping Process as Mechanism towards a Holistic Architectural Design', Building Centre Trust, London, UK,
- 2012
- **Exhibition: 'European Architectural Competition for Morfou's Municipality and Cultural Center'** Attendance in exhibition - Melina Merkouri Hall, Nicosia, Cyprus
  - **Exhibition: 'Architectural Competition for the new offices of Cooperative Central Bank Ltd'** Attendance in exhibition - Hilton, Nicosia, Cyprus
- 2011 **Exhibition: Cyprus architecture Competition for the construction of two footbridges in Paphos municipality**, Attendance in exhibition - Cultural Centre - Old Electricity Authority, Paphos, Cyprus
- 2008 **Exhibition: In the Making: The Department of Architecture at the University of Cyprus**, Attendance in international exhibition in School of Architecture, Pratt Institute, New York, USA with ARH 100 Architectural design I and ARH 101 Architectural design II projects

## PROFESSIONAL SERVICE

- 2021 **Industry Teaching, Lifelong learning program, University of Cyprus**  
Architecture Design through Building Information Modeling (BIM) and Autodesk Revit
- 2021 - 2016 **Industry Teaching, Collaboration, SocialSpace Academy - Professional Education in Cyprus**  
<https://www.socialspaceacademy.com/>
- Instructor for BIM with Revit in architecture (HRDA) (40H)
  - Instructor for BIM with Revit in architecture
  - Instructor for AutoCAD 2D: Design 2d technical drawings
  - Instructor for Digital Skill: Effective Computer Handling for people above 35years old (AvΔΔ)



**Industry Teaching, Self – Employ, ANAD - Enterprise-Based Training Programs in Cyprus**

Lecturing BIM (Building information modeling) for Architects (30H)

- Eraclis Papachristou Architects
- Lazarou & Michael Partners Architects
- Petros Stamataris Architects

2010-2020

**Collaboration, George D. Michael Architectural****<https://gdmarchitecture.com/>**

- 3D model making, project visualization and animation
- Architecture project design and construction

2018

**Collaboration, Fabritopia 2018 - Students and Young Architects Summer Workshop 2018, Cyprus Architect Association in collaboration with University of Cyprus, Nicosia, Cyprus**

Collaboration with Odysseas Kontovourkis, Assistant Professor and Andreas Savvidis, Assistant Professor for the design, digital fabrication, development and construction of an industrial robotically driven urban furniture at Youth Makerspace, Larnaka, Cyprus

**Collaboration, Completion eVolo - 2018 Skyscraper Competition**

Collaboration with Associate Professor M.C. Phocas at University of Cyprus for the international interdisciplinary competition 'eVolo 2018 Skyscraper Competition' for the for the E-Volo magazine with the project: Self-Sustainable High-Rise Components Network.

2016

**Collaboration,, International Competition 'Second Nature'**

Collaboration with Odysseas Kontovourkis, Assistant professor, University of Cyprus, Panagiota Konatzi, PhD Candidate, University of Cyprus and Stella Christofi, Artist for the international competition: Paphos, Cyprus.

2014

**Collaboration, International Competition 'PLASTICITY'**

Collaboration with Odysseas Kontovourkis, Assistant professor, University of Cyprus and Panagiota Konatzi, PhD Candidate, University of Cyprus for the international digital design to fabrication competition with the project 'Force-base surface plasticity', TexFab, 2014.

2013

**Collaboration, International Competition 'SKIN'**

Collaboration with Odysseas Kontovourkis, Assistant professor, University of Cyprus for the international digital design to fabrication competition with the project 'Adaptive inflatable façade', TexFab, 2013.

2011-2014

**Part-time Junior Architect, M.C. Phocas Architects-Engineers, Nicosia, Cyprus**

- Design and 2D/3D planning of the international interdisciplinary competition 'eVolo 2014 Skyscraper Competition' for the for the E-Volo magazine with the project Skyscraper 2014: High-Rise\_City@Net.
- Design and 2D/3D planning of the international interdisciplinary competition 'eVolo 2013 Skyscraper Competition' for the for the E-Volo magazine with the project Skyscraper 2013: High-Rise Traffic-Port.
- Design and 2D/3D planning of the European architectural competition for Morfou's Municipality and Cultural Center in Cyprus
- Design and 2D/3D planning of the European architecture competition for the construction of two footbridges in Paphos municipality in Cyprus
- Design and 2D/3D planning of the international architecture competition for the design of Municipal market and public parking space in Larnaca, Cyprus

- 2012 **Collaboration, Architectural Assistant, IMA Architectural Studios - Ierides & Michael Architects**  
Participate in European architectural competition for the new offices of Cooperative Central Bank Ltd' in Cyprus
- 2009-2010 **Part-Time Architectural Assistant, Theo Devid Architects**  
<https://tdanyc.com/>
- Participate in the design of the Paralimni, Famagusta school at Cyprus
  - Participate in the design and model making of 'Filelefteros new offices' project
- 2008 **Collaboration, Architectural Assistant, IMA Architectural Studios - Ierides & Michael Architects**  
Participate in European architectural competition for the construction of the Dekelia Municipality Building in Cyprus

## PERSONAL SKILLS

Mother tongue	Greek				
Foreign language	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C2	C2	C1	C1	C1
Levels: A1 and A2: Basic user - B1 and B2: Independent user - C1 and C2: Proficient user <u>Common European Framework of Reference for Languages - Self-assessment grid</u>					
Communication skills	<ul style="list-style-type: none"> <li>• Excellent communication skills and interpersonal relations gained through University lecturing and research collaborations</li> <li>• Able to work both as part of a team or independently due to the research experience</li> <li>• Leading skills gained while working as researcher, lecturer, and diploma - thesis 3rd Supervisor</li> </ul>				
Organisational / managerial skills	<ul style="list-style-type: none"> <li>• Responsible for the preparation of a part of a master course for the position of Special Scientist for the ARH550 - Specific Topics Recording and Documentation of Buildings and Sites (Spring semester) – 3D scanning of Church buildings using photogrammetric process.</li> <li>• Workshop co-organize with Odysseas Kontovourkis, Assistant Professor and Andreas Savvidis, Assistant Professor for the design, digital fabrication, development and construction of an industrial robotically driven urban furniture at Youth Makerspace, Larnaka, Cyprus</li> <li>• Training preparation for ANAD - Enterprise-Based Training Programs in Cyprus for lecturing BIM (Building information modeling) for Architects</li> <li>• Lab assistant at Digital Developments in Architecture and Prototyping (d2AP) Lab University of Cyprus, Nicosia, Cyprus</li> <li>• Research Associate at Department of Electrical Engineering and Computer Engineering and Informatics, Cyprus University of Technology, Limassol, Cyprus</li> </ul>				
Digital tools	<ul style="list-style-type: none"> <li>• 3d Modeling: Rhinoceros 2D and 3D modelling, AutoCAD 2D and 3D modelling, 3D Max Studio</li> <li>• 3D Scanning of buildings (photogrammetric process) – point cloud to BIM</li> <li>• 3D Scanning of small scale objects (structural lighting process)</li> <li>• Parametric design, form finding and simulation</li> <li>• Robotic programming: HAL robotics, TACO ABB plug-in, RAPIT ABB</li> <li>• Parametric optimization: Octopus, Galapagos</li> <li>• Structural Analysis: CSi SAP2000</li> </ul>				

Fabrication  
technologies

- BIM with AutoDesk Revit
- H-BIM and as-build digitisation
- Corel Video Studio
- MsOffice: Word, Excel, Power Point
- Laser cutting, CNC G-Code programming
- 3D Printer (Rapid Prototyping), Plastic, concrete, clay, powder passed materials
- Experience with standardized Wiring Assembly of Electronic Systems and Sensors
- IRC5 Industrial Robot Controller - IRB2600