



Curriculum Vitae

Architect & Urban Planner

Dr. Bashar SWAID

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Via Pietro Bucci, University of
Calabria, Architectural and
Technological Design Laboratory
(LAPAT), 87036 Rende (Cs), Italy

Bashar Swaid is a faculty member of Architectural Engineering at University of Yarmouk and a member of the Architectural and Technological Design Laboratory at the University of Calabria. He is a research fellow at the Shattuck Center at American University in Budapest, CEU. For the past nineteen years, he has worked on interdisciplinary issues: urban development, rehabilitation of historical Islamic cities, parametric and algorithmic architecture and genetic design. He led a team preparing the detailed master plans dealing with informal settlements, expansion and industrial areas in Damascus and Aleppo from 2006-2012. Bashar is a co-founder of Al-Diwan engineering consulting office in Aleppo, and he chaired the supervision team for constructing the new industrial city (Al-Belleramon) in Aleppo from 2010-2013. Bashar holds a European PhD in architectural design from the University of Calabria and University of Nürtingen, a PhD in environmental engineering from Polytechnic of Turin, a master in planning and environment from the University of Al-Baath, and a bachelor's of architecture engineering and a diploma in city planning from the University of Aleppo. His research interests deal with bio-inspired design solutions for emerging complex adaptive systems by generative artificial intelligence techniques and genetic algorithm, where he developed an innovative evolutionary technique for filling the destroyed urban gaps in Aleppo. Bashar taught courses on urban and architectural design in many European and Syrian universities from 2006 to 2024. He participated in many international competitions, conferences, published many papers in Arabic and English.

Academic Education

2019	+Postdoc. Social Sciences & Humanities	{01/08/2018–30/08/2019}
	University of Calabria	Italy
2017	+Euro. PhD. Architectural Design	{01/01/2014 – 21/07/2017}
	University of Calabria, University of Nürtingen	Italy-Germany
2015	+PhD. Environmental Engineering	{20/12/2013 – 06/10/2014}
	Polytechnic of Turin	Italy
2013	+MSc. Planning and Environment	{08/02/2008 – 28/05/2013}
	Al-Baath University	Syria
2007	+Dipl. City Planning	{01/10/2005 – 17/12/2006}
	Aleppo University	Syria
2005	+B.Sc. Architecture Engineering	{15/09/2000 – 21/05/2005}
	Aleppo University	Syria

1- {1/08/2018 – 30/08/2019} - (Italy- Cosenza)- Department of Civil Engineering at the University of Calabria, UNICAL

Fractal Architectural Morphogenetic Tool for Controlling Geometry Homogeneity in Urban Postwar Context, Applied in Aleppo

- Postdoctoral Fellow, **ERC sector: SH Social Sciences and Humanities**, ERC sub-sector: SH5_13 Computational Modelling and Digitization in the Cultural Sphere

Professional Experience

2- {1/02/2017 – 28/02/2018} - (Hungary- Budapest)- School of Public Policy at Central European University, CEU

Developing Participatory Planning System for Aleppo and Perspectives Reconstruction: <https://www.thealeppoproject.com/our-team-2/>

- Research Fellow for The Aleppo Project at the Shattuck Center on Conflict, Negotiations, and Recovery

3-{01/01/2017 – 30/08/2018} - (Italy-Cosenza)- Department of Civil Engineering at the University of Calabria, UNICAL

Repertoire of Design Solutions Related to the Mediterranean Tradition (P.A.R.C.O):

- Research Fellow for The P.A.R.C.O Project at the Laboratory of Architectural and Technological Design (LAPAT)

4-{01/04/2005–30/12/2022} - (Syria-Aleppo)- Al-Diwan Engineering Consulting Office **Planning & [Architect] (Principal Design) & Supervision**

□ **Supervision:**

- General Manager for supervision Al-Shater Palace in Beirut, Lebanon Sep 2011 – Jun 2012.
- General Manager for supervision the New Industrial City (AL-Belleramon Industrial City) in Aleppo City 2010-2012.
- Team Leader for supervision the Zeitoni Hospital in Aleppo City (New Aleppo) 2010 -2011.
- Supervisor Engineer for the Coral Martini Hotel five stars (Al-Hamdanya) in Aleppo City 2008 - 2010.
- Team Leader for supervision Al Assad Forest Tourism Village in Aleppo City 2006 – 2007.
- Supervisor Engineer for the New Mall in Aleppo City (Al-Moqambo) 2005 – 2008.

□ **Participation in:** (As Team Leader)

- Elaborate Detailed Studies for a residential project in Al-Jahraa – Kuwait 2022.
- Elaborate the Detailed Studies for Elementary & Secondary Schools in Aleppo City 2011.
- Elaborate the Detailed Studies for the International Park in Aleppo City 2011.
- Elaborate the Detailed Urban Planning Studies for Developing Euphrates river bank in Al-Raqa City 2010.
- Elaborate the Detailed Studies for Central Craft Shops in Al-Hasaka City 2010.
- Elaborate the Detailed Urban Planning Studies of the Assigned Urban Expansion&Illegal Areas in Damascus City 2007- 2009.
- Elaborate the Detailed Studies for Al Assad Forest Tourism Village in Aleppo City 2006.

5-{01/08/2006-30/05/2009} - (Syria-Aleppo) - University engineering unit

□ **Participation in:**

Elaborate the Detailed Urban Planning Studies of the Assigned Urban Expansion & Illegal Areas in Aleppo City 2006.

□ **Participation in:**

Elaborate the Detailed Urban Planning Studies of the Assigned Urban Expansion-Illegal areas in Aleppo City 2005–first phases.

**Academic
Experience**

- **2024 Managing the Quality Assurance Director** at faculty of Architecture Engineering, Damascus University, Syria.
 - **2021 Wining the Second Place at National Level of Al-bassel Fair of Innovation** National Student Competition in Architectural Design, with Kalamoon Private University Team “Developing and designing Shaking Table to simulate the Effect of Seismic forces on Scaled Models of Structures ” Project.
 - **2020 Wining the Finalist of UIA-HYP CUP 2020** International Student Competition in Architectural Design, City Puzzle & Puzzle City, with Aleppo University Team “Global Residential Forest”.
 - **2014 Participate in** Training Course, intellectual property, management of research project, the creation of a business, fund raising and innovation, Liaison Office, University of Calabria, "Field of innovation, Research and Transfer Technology".
 - **2014 Participate in the** Massive online course, Complexity Systems, Santa Fe Institute “Introduction to Complexity”.
 - **2011 Participate in the** design workshop, Urban planning, with Nürtingen University “Development the rural areas in Nürtingen”.
 - **2011 Participate in the** design workshop, Urban planning, with Nürtingen University “Urban development of the illegal area in Damascus (Dwelaa & Al-Tabalaa).
 - **2010 Participate in** the International Conference on Urban Heritage in Islamic Arabic Cities in Kingdom of Saudi Arabia.
 - **2010 Participate in the** design workshop, Urban planning, with Nürtingen University “Urban development the expanding of The Old City of Nürtingen” (the riversides).
 - **2010 Participate in the** design workshop, Urban planning, with Nürtingen University “Urban development the main axes in the Old City of Damascus”.
 - **2009 Participate in** the international symposium about Transformation in Islamic Arabic cities in Germany, Cottbus.
 - **2009 Participate in the** design workshop, Urban planning, with Nürtingen University “Urban development Entrance of The Old City of Nürtingen & Neighborhood”.
 - **2009 Participate in the** design workshop, Urban planning, with Nürtingen University “Urban development the Gates in The Old
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City of Damascus”.

- **2006 Participate in** Summer School Urban planning, with Cottbus University “Rehabilitation of historic Islamic/Arabic cities – Al Salt Historical City in Jordan.
- **2006 Participate in** Summer School Urban Design, with Cottbus University “Urban development of historic districts in Islamic/Arabic Towns -The Saroudja District in Damascus”.

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- **01/10/2024 – Now** Integrated Design Studios (4th year), Faculty of Architectural Engineering, Yarmouk Private University, Syria.
 - **01/09/2022 – 30/09/2024** Integrated Design Studios (2nd, 3rd, 4th, 5th years), Descriptive Geometry (1st year), Criticism in Architecture (5th year), Graduation Project, Faculty of Architectural Engineering, Al-Jazeera Private University, Syria.
 - **01/09/2018 – 30/08/2022** Integrated Design Studios (1st, 2nd, 3rd, 4th, 5th years), Descriptive Geometry (1st year), Criticism in Architecture (5th year), Graduation Project, Faculty of Civil and Architectural Engineering, University of Kalamoon, Syria.
 - **15/09/2018 – 30/05/2019** Landscape Studio (4th year), Faculty of Architecture Engineering, University of Aleppo, Syria.
 - **15/09/2017 – 30/05/2018** Regional Planning Studio, Town Planning Studio (4th year), Faculty of Architecture Engineering, University of Aleppo, Syria.
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- **15/09/2016 – 30/05/2017** Graduation Project (3rd year), Department of Civil Engineering, University of Calabria, Italy.
 - **01/09/2012 – 30/08/2013** Town Planning Studio (4th year), Faculty of Architecture, University of Ebla, Syria.
 - **15/09/2012 – 30/05/2013** Material Design Studio (3rd year), Faculty of Architecture, University of Aleppo, Syria.
 - **15/09/2011 – 30/05/2012** Material Design Studio (3rd year), Faculty of Architecture, University of Aleppo, Syria.
 - **15/09/2010 – 30/05/2011** Architectural Design Studio (2nd year), Material Design Studio (3rd year), Faculty of Architecture, University of Aleppo, Syria.
 - **01/09/2009 – 30/08/2010** Architectural Design Studio (5th year), Faculty of Architecture, University of Al Ithad (Manbij), Syria.
 - **01/09/2009 – 30/08/2010** Architectural Design Studio (5th year), Faculty of Architecture, University of Al-Ithad (Raqa), Syria.
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Teaching Experience

Assistant Professor
Lecturer

Publications

- Swaid, B. (2010). Destiny of Urban Heritage in Transformation of Syrian Cities (Case Study Aleppo City). *The First International Conference for Urban Heritage in the Islamic Countries (UHIC)*, (pp. 50-51). Riyadh, Kingdom of Saudi Arabia.
 - Swaid, B. (2010). The urban development challenges of the historical cores in the Syrian cities. *Journal of Al Baath University, Homs, Syria*.
 - Swaid, B., Bilotta, E., Pantano, P., & Lucente, R. (2015). Thresholding Urban Connectivity by Local Connected Fractal Dimensions and Lacunarity Analyses. *European Conference on Artificial Life 2015*, (pp. 15-16). York, England.
 - Swaid, B., Bilotta, E., Pantano, P., & Lucente, R. (2016). Bio-Inspired Design Tool to Emerge Multifractal Forms. *International Journal of Academic Scientific Research*, 1-9.
 - Swaid, B., Bilotta, E., Pantano, P., & Lucente, R. (2016). Emergence nonlinear Multifractal architecture by Hypervolume estimation algorithm for evolutionary multi-criteria optimisation. *Parallelism in Architecture, Environment And Computing Techniques, (PACT)*. London, UK: Taylor & Francis.
 - Swaid, B., Eleonora, B., Pantano, P., & Lucente, R. (2016). Evolutionary design guidelines for filling historical urban gaps. *GA2016 – XIX Generative Art Conference* (pp.79-92). Florence, Italy: Domus Argenia Publisher, ISBN 978-88-96610-3-12.
 - Salkini, H., Swaid, B., Greco, L., & Lucente, R. (2016). Developing a Multi-scale Approach for Rehabilitating the Traditional Residential Buildings within the Old City of Aleppo (Syria). *Le Vie Dei Mercanti XIV International Forum. World Heritage and Degradation, smart design, planning and technologies* (pp. 202-211). Naples, Italy: Le Vie Dei Mercanti.
 - Swaid, B., Lucente, R., & Gangler, A. (2016). Decision-making processes and its role in filling built heritage gaps after conflict. In S. Haj Ismail, *Rebuilding Heritage: Aleppo old City Post-conflict, Challenges and Opportunities of reconstruction*. Raleigh, USA: Lulu Press, ISBN: 978-1-326-53611-4.
 - Swaid, B., Lucente, R., Bilotta, E., & Pantano, P. (2015). Multifractal Geometry Role's in Historic Urban Morphogenesis. *GENERATIVE ART 2015* (pp. 135-147). Venice, Italy: Domus Argenia Publisher, ISBN 978-88-96610-31-2.
 - Swaid, B., Salkini, H., Greco, L., & Lucente, R. (2016). Morphological and Environmental Perspectives for Optimizing
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Multifractal Architecture in the Historical City of Aleppo. *Archdesign 16, international architectural design conference on design and nature* (pp.571-579). Istanbul, Turkey: DAKAM.

- Swaid, B., Salkini, H., Greco, L., & Lucente, R. (2016). Urban gentrification and challenges of rehabilitation of the historical centre of Aleppo in the post-war: towards a balanced socio-economic role. *17th International Planning History Society (IPHS) Conference, HISTORY - URBANISM - RESILIENCE* (pp. V.7, P.201). Delft, Netherlands: Tu Delft, ISBN 978-94-92516-08-4.
 - Salkini, H., Swaid, B., Greco, L., & Lucente, R. (2017). Embodying a new bio-climatic design in the rehabilitation process of the historical context of Aleppo post-war. *Le Vie Dei Mercanti XV International Forum. World Heritage and Disaster, Knowledge, Culture and Representation* (p. 367-375). Naples, Italy: Le Vie dei Mercanti. ISBN 978-88-6542-582-4.
 - Salkini, H., Swaid, B., Greco, L., & Lucente, R. (2017). Emerging an Adaptive Kinetic Mashrabia for Reviving the Environmental Responsive in the Traditional Courtyard House of Aleppo. *Sharing Computational Knowledge! - Proceedings of the 35th eCAADe Conference - Volume 1*, Sapienza University of Rome, Rome, Italy, 20-22 September 2017, pp. 299-308.
 - Swaid, B, Daboul, S (2023) Analyzing International Practices Concerning Demographic Planning Projects for Integrating Historical Centers Defining Principles for Demographic Gentrification in the Integration Areas (under publication).
 - Swaid, B, Daboul, S (2023) Buffer Zone Integrated Planning Process (under publication).
 - Swaid, B, Daboul, S (2023) Analyzing International Practices Concerning Economic Planning Projects for Integrating Historical Centers Defining Principles for Developing the Local Economy in the Integration Areas (under publication).
 - Swaid, B, Daboul, S (2024) Evaluating Urban Planning Tools and Policies Concerning Buffer Zone of Aleppo (under publication).
 - Swaid, B, Daboul, S (2024) Analyzing International Practices Concerning Land Use Planning Projects for Integrating Historical Centers Evaluation of Land Use Alternatives Effects' in the Integration Areas (under publication).
 - Swaid, B, Daboul, S (2024) Analyzing International Practices Concerning Transportation Planning Projects for Integrating Historical Centers Evaluating the Transportation Amount and Patterns in the Integration Areas (under publication).
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**International
Conferences**

	Conference Name	Location	Date
1	The First International Conference for Urban Heritage in the Islamic Countries (UHIC)	King Saud University Riyadh, KSA	23/04/2010
2	“Armonicamente” conference. The main topic is the junction of art and science, reciprocal influences and supports, organized by Department of Physics,	The University of Calabria, Cosenza, Italy	10/06/2014
3	“Mediterraneo: Un Mare di Culture” organized by Office of International Relations,	The University of Calabria, Cosenza, Italy	24/10/2014
4	"La tutela dell'ambiente e la conservazione del suolo L'impegno dell'Università della Calabria".	The University of Calabria, Cosenza, Italy	23/04/2015
5	European Conference on Artificial Life.	University of York, UK	20/07/2015
6	GENERATIVE ART 2015, GA2015, XVIII International Conference, Generative Design Lab.	Polytechnic of Milan, Venice, Italy	09/11/2015
7	"Pianeta Acqua" La qualità della risorsa idrica in Calabria: stato della arte e prospettive.	The University of Calabria, Cosenza, Italy	19/05/2016
8	ARCHDESIGN' 16, 3 rd International Architectural Design Conference on Design and Nature. DAKAM.	Eastern Mediterranean Academic Research Centre, Istanbul, Turkey	16/06/2016
9	Conference and Workshop “Scenarios for Post-War Reconstruction in Aleppo”, Institute of Urban Planning and Design, Department of International Urbanism and IUSD Lab.	Stuttgart University, Stuttgart, Germany	16/06/2016
10	The XIV International Forum “Le Vie dei Mercanti” in World Heritage Degradation: Smart Design, Planning and Technologies.	The second University of Naples, Naples, Italy	16/06/2016
11	The 17 th International Planning History Society Conference.	TuDelft University, Delft, Netherland	18/07/2016
12	Parallelism in Architecture, Environment and Computing Techniques, (PACT).	University of East London, UK	12/09/2016
13	Biological Design and Integrative Structure	Stuttgart University, Stuttgart, Germany	12/11/2016
14	The 19 th GENERATIVE ART 2016, GA2016, International Conference, Generative Design Lab.	Polytechnic of Milan, Florence, Italy	15/12/2016

Scholarships & Research Grants

- 2019 (1 year) Research Grant, University of Calabria, Italy**
Postdoctoral Research Grant at Civil Engineering Dept.
- 2017 - 2018 (2 years) Italian Foreign & International Ministry, Italy**
Research Grant for The P.A.R.C.O Project
- 2017 (1 year) Central European University, Hungary**
Research Grant for The Aleppo Project
- 2016 (1 years) Italian Foreign & International Ministry, Italy**
PhD Research Grant
- 2016 (3 months) 5 * 1000 Fund, University of Calabria, Italy**
Mobility Grant for European PhD Candidates
- 2014 -2015 (2 years) Unical Admission, University of Calabria, Italy**
PhD Research Scholarship

International Competitions

- **UIA – HYP Cup 2020, Third Place** at the Finalist
- **UIA – HYP Cup 2021, Second Place** at the Finalist
- **Al Basel International Fair of Innovation and Creativity 2021, Second Place** at the Finalist

Computer Skills

Sl. No	Skill Title	Skill level (Basic/Intermediate/ Proficient)	Total Experience (years)	Last Used (Year)
1	NetLogo 5.1 (Simulation, Evolution Complex Adaptive System)	Proficient	10	2019
2	Fractalyse 2.4 (Analyzing, Measuring Complexity)	Intermediate	10	2018
3	Rhinoceros 7 (Grasshopper + Python Script)	Proficient	10	2021
4	Autodesk Revit Building 2020	Proficient	22	2024
5	Autodesk Ecotect Analysis 2011 (P.H.P.P)	Proficient	10	2024
6	UCL Depthmap 10.14	Proficient	6	2024
7	Resist V4 (Seismic Design for Architects)	Proficient	6	2024
8	AutoCAD (2020)	Proficient	22	2024
9	MapInfo 7.0 (G.I.S)	Intermediate	20	2020
10	ImageJ (Image Processing)	Proficient	10	2021
11	M.S. Project 2012 (Project Management)	Proficient	15	2023
12	Adobe Photoshop	Intermediate	20	2010
13	SPSS 20 (Statistical Analysis)	Intermediate	20	2020
14	International Computer Driving License ICDL6	Proficient	4	2024

Language skills <i>(1=poor;5=very good)</i>	<i>Language</i>	<i>Reading</i>	<i>Speaking</i>	<i>Writing</i>
	Arabic	mother tongue		
	English	5	4	4
	German	2	1	1
	Italian	4	4	4
	French	2	2	1

- Organizational Skills and Competencies**
- Excellent organizational skills, and experience in administrative tasks both professionally and academically. Good time management skills, attention to details and ability to meet deadlines. Very good analytical and problem-solving abilities.
 - Strong and abroad experience in curriculum development, accreditation process (NAAB, RIBA, UNISCO-UIA), academic advising, strategic and operational planning, quality management and organization of conferences and seminars, workshops and exhibitions. Durable potential to establish an active research program in architecture and urban composition.

Referee Contact Information	NO	Name	Email	Mobile	Organization Address	Current Designation
	1	Siegfried Gass	Info@archon.com	+497127952357	University of Nürtingen	Professor
	2	Salah HajIsmail	Salah.hajismail@aybu.edu.tr	+34631025988	University of Ankara Yildirim Beyazit	Associate Professor
	3	Roberta Lucente	Roberta.lucente@unical.it	+393737206717	University of Calabria	Professor
	4	Mohammad Zakkour	Mzak@alepuniv.edu.sy	+963933765018	University of Aleppo	Assistant Professor
	5	Mohammad Khayri Baroudi	crgbaroudi@gmail.com	+963944232406	Al Jazeera Private University	Professor
	6	Ahmad Naser Sadek	ansadek@yahoo.com	+971504446976	Canadian University of Dubai	Professor

**Personal
Information**

- Born in Aleppo 1982
 - Citizenship: Syrian
 - Married and a father of Three Children.
 - Xing:
https://www.xing.com/profile/Bashar_Swaid/web_profiles?expandNeffi=tru
 - Research Gate: <https://www.researchgate.net/profile/Bashar-Swaid>
 - Google Scholar:
<https://scholar.google.com/citations?user=TO5x1FgAAAAJ&hl=en>
 - LinkedIn: <https://www.linkedin.com/in/bashar-swaid-879211219/>
 - Scopus Author id: 57196097692
 - Orcid id: 0000-0002-5720-7622
 - European Patent Office id: 47244
 - Order of Syrian Engineering id: 91734
 - Italian Identity Card N: AX4435294
 - Italian Tax Code: SWDBHR82E20Z240O
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