



Milad Heiranipour

Graduate of Energy and Architecture from University of Art, Tehran

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Tehran, Iran

CV Summary

- Master's degree in Energy and Architecture;
- High distinction average in academia and awarded as talent student and top graduate;
- Publish two books and journal papers and collaborate on four research projects;
- Lecturer in Energy and Architecture in three universities;
- Publish eight software training packages for modeling and analysis of energy and daylight;
- Energy and daylight advisor in international and national projects.

Education

2016-2019 Master of Science (MSc) in Energy & Architecture (GPA:95)(High distinction)
- University of Art, Tehran- Iran
- Thesis Title: Optimizing Window Size Considering Heating and Lighting Parameters in Residential Buildings of Cold Climate: Case Study Ilam/Iran
 Supervisor: [Dr. Rima Fayaz](#)
 Advisor: [Dr. Mojtaba Mahdavinia](#)

2011-2015 Bachelor of Architecture Engineering (GPA:93)(High distinction)
- Ilam University – Iran
- Thesis Title: Design the Office Building with Zero Energy Approach in Ilam, Iran.
 Supervisor: [Dr. Jamal Khodakarami](#)

Publications

- **Books**

-**Heiranipour, M.**, Sangin, H., Haghighinejad, K., (2022). *Review of passive design strategies in cooling and heating*. Kankash Company ([Link](#)).

- Rakhshani-Mehr, M., Vernaseri, D., Memarian, S., Zare, F., Shahbazi Manshadi, A. M., Khalili, M., Makhdoomi, M., Hosseini, S. M., Khabareh, M., Fayaz, R., Mofidi-Shemirani, S. M., Mahmoudaz, A. S., Mansoor, J., Salehi, A., **HeiraniPour, M.**, Abbasi, M. H., Tayari, S. A. (2020). *Integrated design process: with a green school management approach*. Tarahan Katibeh Iranian Company.

- **Journal papers**

- Hosseini, S. N., Hosseini, S.M., & **HeiraniPour, M.** (2020). The Role of Orosi's Islamic Geometric Patterns in the Building Façade Design for Improving Occupants' Daylight Performance. *Journal of Daylighting*, 7(2), 201-221. <https://doi.org/10.15627/jd.2020.18>.

- **HeiraniPour, M.**, Fayaz, R., & Mahdavinia, M. (2019). Optimal window dimensions concerning daylight and heat in residential buildings of cold climate, case study: Ilam. *Armanshahr Architecture & Urban Development Journal*, August 19, 2019.

<https://dx.doi.org/10.22034/aaud.2019.185696.1881>

- **Research projects**

- Garakani, S. A., Hadadi, M., **HeiraniPour, M.**, Moradi, M. (2021). *Reforming endangered units located in the informal and unorganized texture of the Bandar Imam city*, Natural Disasters Research Institute (NDRI), Tehran, Iran.
- Ahmadi, T. **HeiraniPour, M.** (2018). *Study of Darreh Shahr Museum site*, Ilam University, Ilam, Iran.
- Ahmadi, T. **HeiraniPour, M.** (2016). *Urban landscape improvement: A case study of Modares Blvd in Ilam*, Ilam University, Ilam, Iran.
- Ahmadi, T. **HeiraniPour, M.** (2016). *Investigating the feasibility of creating sidewalks and its spatial features in Ilam Case study: Taleghani St*, Ilam University, Ilam, Iran.

- **Conference papers**

- **HeiraniPour, M.**, Ahmadi, T. (2020). Optimization of Insulation Thickness in Cold Climate Residential Buildings; Case Study of Ilam. In *7th International Conference on Civil, Architectural and Environmental Sciences, Berlin, Germany January 10, 2020*.
- **HeiraniPour, M.**, Sadeghi, R., Ramezani, K. (2016). Investigating the capabilities of Revit Architecture software in the process of interior architecture design. Case study: Mirdamad office project. In *International Conference on Architecture, Urban Planning, Civil Engineering, Art and Environment; Future horizons, look to the past, Tehran, March 7, 2016*.
- **HeiraniPour, M.**, Khodakarami, J. (2016). Investigation of design principles of atriums for energy conservation in sustainable office buildings. In *International Conference on Architecture, Urban Planning, Civil Engineering, Art and Environment; Future horizons, look to the past, Tehran, March 7, 2016*.
- **HeiraniPour, M.**, Khodakarami, J. (2015). Investigating the design principles of office buildings with a sustainable architectural approach. In *International Conference on Civil Engineering, Architecture and urban infrastructure, Tabriz, July 29, 2015*

Work Experience

- Dec 2021 - **Adjunct Lecturer: Tehran University of Art, Tehran, Iran**
 - Present
 - 1. Master of Energy and Architecture (2nd semester: 2021_2022)
 - Architectural design 2 course
 - 2. Bachelor of Interior Architecture (2nd semester: 2021_2022)
 - Regulating environmental conditions course
- Feb 2021– **Architecture Supervisor / Research: Natural Disaster Research Institute (NDRI)**
 - Present
 - Architecture Supervisor
 - Energy and Daylighting Researcher
 - BIM Research & Modeller
- Apr 2017– **Co-Founder: ArchiFab Design Studio**
 - Present
 - Funded and directed the Energy Department of the company
 - Simulation of the energy and daylight Architectural project.
 - BIM Modelling Architectural project
 - Parametric modeling and Digital Fabrication.

- Sep 2021 - Present **Adjunct Lecturer:** Molana Institute of Higher Education, Qazvin, Iran
1. Master of Energy and Architecture (1st semester: 2021_2022)
Energy Simulation in Building & Software Use course
 2. Master of Architecture (2nd semester: 2021_2022)
Architectural expression 3
Fundamental of architectural design
- Oct 2020– Present **Adjunct Lecturer:** University of Kurdistan, Sanandaj, Iran
1. Master of Energy and Architecture (1st semester: 2020_2021)
Energy Simulation in Building & Software Use course
 2. Master of Energy and Architecture (1st semester: 2021_2022)
Energy Simulation in Building & Software Use course
- Feb 2020 – Jun 2021 **Green School Specialist:** Organization for Development, Renovation, and Equipping schools of I.R. IRAN
- Checking the school architectural project based on green school rules.
 - Compiling and communicating seven-scope design guidelines for green schools in the area of water, energy, indoor quality, waste and pollution, site management, and Materials.
- Jul 2019– Feb 2020 **Architect and Supervision:** Arya shaher Paydar Consulting Engineers Office, Ilam Province, Iran
- Design and Supervision Architectural Project.
- Jan 2017 – Jun 2019 **Green management expert:** Iran Ministry of Science, Research and Technology
- Checking the university architectural project based on green management rules for budget distribution.
 - Compiling and communicating seven-scope design guidelines for green universities in the area of water, energy, indoor quality, waste and pollution, site management, and Materials.

Technical Skills

- Computational Design in Architecture (Scripting in Grasshopper and GhPython)
- Architectural Design
- Interior & Exterior Design
- 3D Visualization- Rendering and Animation
- Building Performance Simulation
- Envelope Design regarding Daylighting and Energy Consumption
- Parametric and Generative Modelling and Simulations
- Python
- Quantity surveying and estimating
- Multi-Objective Optimization in Architectural Design & Analysis
- Conceptualizing & developing innovative ideas
- Supervisor Engineer

Training

- Mar 2020 “BIM Essential”, Archistar.ai
- Jan 2015 “HSE”, construction engineering organization of Ilam, Iran
- Jan 2015 “Writing the scientific article”, construction engineering organization of Ilam, Iran

Research Interest

- Energy & daylighting optimization
- Sustainability in the built environment;
- Responsive architecture, Vernacular architecture;
- Thermal/visual comfort in outdoor/indoor environments;
- Architecture for well-being and health;
- Parametric modeling and digital fabrication.

Other Skills

- **Language Skills**

Persian	Native
English	Proficient English

- **Computational Skills**

* Climate Studio	(Highly skilled)
* Honeybee & Ladybug	(Highly skilled)
* Diva	(Highly skilled)
* Revit	(Highly skilled)
* Parametric design and Modeling	(Highly skilled)
* Computational Design	(Highly skilled)
* AutoCAD	(Highly skilled)
*LUMION 9	(Highly skilled)
*Adobe Photoshop cs5	(Highly skilled)
*Rhino	(Highly skilled)
*Energy Plus	(Highly skilled)
*Ecotec	(Highly skilled)

References

- Dr. Rima Fayaz, Associate Professor of Architecture, Faculty of Architecture and Urbanism, University of Art, Tehran, Iran., Email: Fayaz@art.ac.ir, Contact number: +982166722740
- Dr. Salah Vaisi, Assistant professor of Architecture, Faculty of Art and Architecture, University of Kurdistan, Iran, Email: Contact number: +988733662963
- Dr. Morteza Hosseini, Smart Architectural Technology, Department of the Built Environment, The Eindhoven University of Technology, The Netherlands, s.m.hosseini@tue.nl, Hosseinimorteza66@gmail.com Contact number: +989113251685