

CURRICULUM VITAE

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ACADEMIC DEGREES

- PhD, Assiut University, Egypt, through joint supervision with Arizona State University, USA, 2003.
- M.Sc, Assiut University, Egypt, 1995.
- B.Sc, Assiut University, Egypt, 1988.

PRIMARY AREAS OF EXPERTISE IN TEACHING & RESEARCH

1. Architectural Design Studios (Through Interaction of Digital and Manual Media).
2. Design Fundamentals (The Design Process, Conceptual Design, and Visual Design Thinking).
3. Design Methodology (Trends in Digital Architecture).
4. Computing Architecture (3D Modeling Systems).
5. Computer Aided Design (AutoCAD, 3ds max, and Virtual Reality).
6. Contemporary Vision of Islamic Architecture and Neighborhood Planning.

PRINCIPAL COURSES TAUGHT TO DATE IN ACADEMIA

1. Architectural Design Studios.
2. Computer Animations (3ds max).
3. Computer Aided Drafting and Design (AutoCAD and Revit).
4. BIM Applications (Revit).
5. Interior Design for Architects.

ACADEMIC EXPERIENCE

Academic Positions Held Earlier:

- Associate Professor, Department of Architecture and Interior Design, College of Engineering, University of Bahrain, 2014-present.
- Asst Prof, Department of Civil Engineering and Architecture, University of Bahrain, 2007-2014.
- Postdoctoral Researcher, Department of State, USA / Adjunct Faculty, School of Architecture, Arizona State University, 2006-2007.
- Lecturer (Asst Prof), College of Engineering at Aswan, South Valley University, Egypt, 2005-2006.

- Lecturer (Asst Prof), Faculty of Fine Arts at Luxor, South Valley University, Egypt, 2004-2006.
- Assistant Lecturer, Faculty of Fine Arts at Luxor, South Valley University, Egypt, 2002-2004.
- Visiting Research Scholar, School of Architecture and Environmental Design, Arizona State University, Tempe, USA, 2000-2002.
- Assistant Lecturer, Faculty of Fine Arts at Luxor, South Valley University, Egypt, 1998-2000.

PROFESSIONAL EXPERIENCE

Positions and Most Significant Duties:

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| <ul style="list-style-type: none"> • Architectural Engineer, Consultant Engineer Office of Assiut University, Egypt, 1990-1991. | <ul style="list-style-type: none"> – Dormitories (Buildings 1&2), Assiut University, Sohag, Egypt. |
| <ul style="list-style-type: none"> • Principal Architectural Engineer, Consultant Engineer Office of South Valley University, Egypt, 1991-1993. | <ul style="list-style-type: none"> – Labs Building, Faculty of Science, South Valley University, Sohag, Egypt. – Administration Building, South Valley University, Sohag, Egypt. |
| <ul style="list-style-type: none"> • Principal Architect, Consultant Engineer Office of South Valley University, Egypt, 1993-1997. | <ul style="list-style-type: none"> – Dormitories (Buildings 3&4), South Valley University, Sohag, Egypt. |
| <ul style="list-style-type: none"> • Principal Architect, Consultant Office of Faculty of Fine Arts at Luxor, South Valley University. 1997-1998. | <ul style="list-style-type: none"> – Open Theatre, Luxor Governorate, Luxor, Egypt. |
| <ul style="list-style-type: none"> • Co-Designer (50%), with the Consultant Engineer of South Valley University, 1995-1997. | <ul style="list-style-type: none"> – Classrooms and Labs Building, Faculty of Arts and Literature, South Valley University, Sohag, Egypt – Main Building of Faculty of Fine Arts, South Valley University, Luxor, Egypt. – Radiology Building, University Hospital at Sohag, Faculty of Medicine, South Valley University, Egypt. – Conference Halls Building, South Valley University, Sohag, Egypt |
| <ul style="list-style-type: none"> • Principal Architectural Engineer, Consultant Engineer Office of South Valley University, Egypt. 1997-1999. | <ul style="list-style-type: none"> – Classrooms Building, Faculty of Administration and Commerce, South Valley University, Sohag, Egypt. – Radiology Building, University Hospital at Sohag, Faculty of Medicine, South Valley University, Egypt. – Conference Halls Building, South Valley University, Sohag, Egypt. |

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- Principal Interior Designer, Consultant Office of Faculty of Fine Arts at Luxor, South Valley University, 2005-2006. – Conference Hall of New Naga Hammady Barrage, Ministry of Aggregation and Water Resources, Naga Hammady, Egypt
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- Head of the university team of Land Use Planning, 18 members, which conducted the project 2006-2007. – Strategic physical planning to develop eight villages till 2020, Sohag Governorate, Egypt.

RESEARCH EXPERIENCE

- Principal Researcher, Micro-Simulation Using XML in Virtual Reality a case study of construction process visualisation. Funded by Deanship of Scientific Research, University of Bahrain, 2011-2013.
- Principal Researcher, Architectural form creation in the design studio: Is physical modeling effective as a design tool? Funded by Deanship of Scientific Research, University of Bahrain, 2009-2010.
- Principal Researcher, Developing a New Approach of Computer Use for Mass Suggestion of Architectural Design funded by Fulbright Commission, U.S.A. 2006-2007.
- Co-researcher with professor Kobayashi, Arizona State University, WikiYO-E System: a design sharing and networking database system, funded by researchers and partially by Fulbright Commission, 2005- present.
- Principal Researcher, Implementations and Applications of the DesignMap: Case studies to manage an online database of visual designs, funded by Deanship of Scientific Research, University of Bahrain, 2007-2008.
- Co-researcher with professor Kobayashi, Arizona State University, Urban Wiki: a networking Urban Design system, 2009- present.
- Member of World8, an international working group on virtual reality (VR) and demonstrates VR applications in architecture developed by the group members from eight universities around the world, including: the United States, the United Kingdom, Japan, Chile, Canada, Egypt/Bahrain and the United Arab Emirates.
The main objective is to develop a research framework for the collaboration among architectural schools and a software developing company, especially for new applications in the VR visualization of urban settings with dynamic agents such as traffic simulation and human models, from 2007 to 2011.
- Member of World16, the previous team after adding new 8 members, 2014-present.

MEMBERSHIPS

- Associate Member of ACADIA and SIGraDi (since 2002), and of eCAADe and AS-CAAD (since 2004).
- Board Member of the Arab Society for Computer Aided Architectural Design, AS-CAAD, (Terms of 2006-2009 and 2011-2013).

HONOURS & AWARDS

- Certificate of Appreciation, Reviewing Applicant Proposals, the Fulbright Commission of Egypt, 2012.

- Award, Forum 8 Company, Japan. Virtual Reality Project, Business Award, 2011.
- Certificate of Appreciation, Completing the Postdoctoral Scholarship, the Fulbright Commission of Egypt, 2011.
- Certificate of Appreciation, Head of Organizing and Scientific Committees of ASCAAD Conference, University of Bahrain, 2009.
- Certificate of Appreciation, the celebration of distinguished graduates, Egypt Faculty of Engineering, Assiut University, 2004.
- Certificate of Appreciation, the celebration of the teacher day, Faculty of Fine Arts at Luxor, South Valley University, Egypt, 2004.
- Certificate of Appreciation, the celebration of distinguished members, Tawfikya Club for Tennis, Almohandseen, Giza, Egypt, 2003.
- Certificate of Appreciation, Egyptian Engineers Syndicate, Sohag Branch, Egypt, 1995.

CONTRIBUTIONS TO ACADEMIC ENDEAVOURS & OTHER ACHIEVEMENTS

1- Presentations and Lectures

- Guest Speaker, 8th Design Festival, Tokyo, Japan. Nov. 2014.
- Presenter, 5th VR Summer Workshop, Hawaii, USA, July 2014.
- Presenter, the 19th CAADRIA Conference, Kyoto Institute of Technology, Japan, May 2014.
- Presenter, the Conference on Virtual and Augmented Reality in Education - VARE, Canary Islands, Spain, November 2013.
- Keynote Speaker, CAD'12, CAD Conference and Exhibition, Niagara Falls, Canada. June 2012.
- Guest Speaker, 5th VR Symposium, Tokyo, Japan. Nov. 2011.
- Guest Speaker, 4th VR Symposium, Tokyo, Japan. Nov. 2010.
- Presenter, 4th VR Summer Workshop, University of California at Santa Barbra, Santa Barbra, USA, July 2010.
- Guest Speaker, 3rd VR Symposium, Tokyo, Japan, Nov. 2009.
- Presenter, 3rd VR Summer Workshop, Tokyo, Japan, July 2009.
- Presenter, 4th ASCAAD Conference, University of Bahrain, Manama, Bahrain, May 2009.
- Guest Speaker, 2nd VR Symposium, Tokyo, Japan, Nov. 2008.
- Presenter, 2nd VR Summer Workshop, Arizona State University, Tempe, USA, July 2008.
- Guest Speaker, 1st VR Symposium, Tokyo, Japan, November 2007.
- Presenter, 1st VR Summer Workshop, Tokyo, Japan, July 2007.
- Presenter, 1st ASCAAD Conference, King Fahd University of Petroleum & Minerals, Dhahran, Saudi Arabia, February 2005.

2- Reviewing

- Member of the Technical Committee for International Fulbright Science and Technology (IFST), Ph.D. Award, Fulbright Commission (Egypt – USA), since 2006-Present.
- Member of the Technical Fulbright Committee for Postdoctoral Scholarship, Fulbright Commission, (Egypt – USA), since 2007-Present.
- Member of the Reviewing Committee of Sigradi, since 2010-Present.

- Member of the Reviewing Committee of CAD Conference and Exhibition, since 2010-Present.
- Member of the Reviewing Committee of ASCAAD, 2012.
- Reviewer of the Second Symposium of Charitable and Affordable Housing in Saudi Arabia: Creative Solutions, 28-30 April, 2008.
- Reviewer of the Third and the Forth e-Services Symposium in the Eastern Province of Saudi Arabia, 26-27 February, 2008-2009.

SIGNIFICANT PUBLICATIONS

1- Books

- Abdelhameed, Wael (2010) **The Impact of Computer on Design Capabilities of Architects: A comparative study of different trends**, VDM Verlag Dr Muller, Germany, ISBN 978-3-639-13683-8.
- Digitizing Architecture: formalization and content (2009) **the Fourth International Conference Proceedings of the Arab Society for Computer Aided Architectural Design**, Abdelhameed, Wael; N. Hamza and A. Bennadji (eds.), Manama, Kingdom of Bahrain, ISBN 978-99901-06-77-0.

2- Journals

- Abdelhameed, Wael. Virtual Reality Use in Architectural Design Studios: A case of studying structure and construction, **Procedia Computer Science**, Elsevier, Volume 25, **2013**.
- Abdelhameed, Wael. Micro-Simulation Function to Display Textual Data in Virtual Reality, **The International Journal of Architectural Computing - IJAC**, Volume 10 No 2, June **2012**.
- Abdelhameed, Wael. Virtual Reality Applications in Project Management Scheduling, **Computer-Aided Design and Applications**, Volume 9, Issue 1, January **2012**.
- Abdelhameed, Wael. Architectural Form Creation in the Design Studio Physical modeling as an effective design tool **Archnet-IJAR**, Volume 5, Issue 3, November **2011**.
- Abdelhameed, Wael; Kobayashi, Y. Design wiki: a system for design sharing. **V!RUS** , São Carlos: Nomads.usp, No 3, **2010**.
- Kobayashi, Yoshihiro; and Abdelhameed, Wael. Implementations and Applications of the DesignMap: Case studies to manage an online database of visual designs, **The International Journal of Architectural Computing - IJAC**, Volume 6 No 3, September **2008**.
- Abdelhameed, Wael. The Impact of Digital and Manual Media Settings on the Conceptualization Capability of Architects, **Journal of Engineering Sciences JES**, Assiut University, Egypt, October **2003**.

3- Conference Proceedings

Author:

- Abdelhameed, Wael, Creativity and VR Use: A case study, **the 19th International Conference of the Association for Computer Aided Architectural Design and Research in Asia – CAADRIA**, Kyoto Institute of Technology, Japan, 14-16 May, **2014**.
- Abdelhameed, Wael, Virtual Reality Use in Architectural Design Studios: A case of studying structure and construction, **International Conference on Virtual and Augmented Reality in Education - VARE**, Canary Islands, Spain, 7 – 8 November, **2013**.
- Abdelhameed, Wael, Reciprocal Relationship of Conceptualization and Design Problem Definition: A proposed approach for an architectural design studio, **Proceedings of the CAAD Future Conference**, Montreal, Canada, June 17-19, **2009**.

- Abdelhameed, Wael. Assessment of A Physical Planning Project through Virtual Reality, *Proceedings of the Arab Society of Computer Aided Architectural Design, 4th ASCAAD conference*, Manama, Bahrain, May 11-12, 2009.
- Abdelhameed, Wael. Cognition Model in Conceptual Designing: Case studies of architecture students' designs, *Computer Aided Architectural Design and Research in Asia (CAADRIA)*, Yunlin, Taiwan, April 22-25, 2009.
- Abdelhameed, Wael. Establishing Databases for Effective Management during Natural and Unnatural Disasters of Buildings, *the 1st Symposium of Natural and Unnatural Disasters management of Buildings*, Riyadh, KSA, March 29 – April 1, 2008, (in Arabic).
- Abdelhameed, Wael. The Planning Unit of Residential Districts through an Islamic Conception, *Housing Symposium 3*, May 20-23, Riyadh, KSA, 2007.
- Abdelhameed, Wael. How Does the Digital Environment Change What Architects Do in the Initial Phases of the Design Process, *the 24th conference of Education and research in Computer Aided Architectural Design in Europe eCAADe*, University of Thessaly, Volos, Greece, September 6-9, 2006.
- Abdelhameed, Wael. The Relations between Design-Idea Emergence and Design-Solution Direction: A digital-media use in mass exploration of architectural design ideas, *the 2nd ASCAAD conference*, American University of Sharjah, UAE, April 25-27, 2006.
- Abdelhameed, Wael. Digital-Media Impact on the Representation Capability of Architects, *the 9th SIGraDi conference*, Lima, Peru, November 21-23, 2005.
- Abdelhameed, Wael. Digital-Media Impact on the Decision-Making Capability of Architects, *the 9th SIGraDi conference*, Lima, Peru, November 21-23, 2005.
- Abdelhameed, Wael. A Java Program Model for Design-Ideas Exploration in three Dimensions: Employed Visual Perception in Mass Exploration Process, *the 1st ASCAAD conference*, King Fahd University of Petroleum & Minerals, Dhahran, February 22-24, 2005.
- Abdelhameed, Wael. Visual Design Thinking in the Design Process as Impacted by Digital Media, *the 22nd eCAADe conference, Education and research in Computer Aided Architectural Design in Europe*, the Royal Academy of Fine Arts, Copenhagen, Denmark, September 15-18, 2004.

Co-Author:

- Abdelhameed, Wael; Kobayashi, Yoshiro. Urban Wiki: An online urban design system, *SIGraDi 2009 - Proceedings of the 13th Congress of the Iberoamerican Society of Digital Graphics*, Sao Paulo, Brazil, November 16-18, 2009.
- Abdelhameed, Wael and Kobayashi, Yoshihiro. Urban Wiki and VR Applications, *CONVR, 9th In-ternational Conference on Construction Applications of Virtual Reality*, The University of Sydney, Australia, November 5-6, 2009.
- Kobayashi, Yoshihiro et. al. World8: International Working Group for New Virtual Reality Applications in Architecture, *Proceedings of the CAAD Future Conference*, Montreal, Canada, June 17-19, 2009.
- Abdelhameed, Wael; Kobayashi, Yoshiro. Developing a New Approach of Computer Use 'Kiss Modeling' for Design-Ideas Alternatives of Form Massing: A framework for three-Dimensional Shape Recognition in Initial Design Phases, *the 3rd Conference Proceedings of ASCAAD*, Alexandria Bibliotheca, Alexandria, Egypt, November 28-30, 2007,
- Kobayashi, Yoshihiro; Abdelhameed, Wael. Design Map: a framework for a design environment through networking, *the 11th Conference Proceedings of Sigradi*, Mexico, October 23-25, 2007.

- Abdelhameed, Wael et al., Digital Media Impact on the Knowledge Building and Retrieving Capability of Architects, *the 8th Conference Proceedings of SIGraDi*, the Universidade do Vale do Rio dos Sinos, Sao Leopoldo, Brazil, November 10-12, **2004**.
- Abdelhameed, Wael et al., The Impact of Digital and Manual Media Settings on the Form-Giving Capability of Architects, *the 5th International Architectural Conference of Assiut University*, Assiut, Egypt, April 20-22, **2003**.
- Abdelhameed, Wael et al., Assessment of the Impact of Digital-Manual Media Types on the Basic Capabilities of Architects: A proposed framework and directive measures, *the 6th SIGraDi conference*, Caracas, Venezuela, November 27-29, **2002**, (presenting paper).
- Abdelhameed, Wael et al., The Planning Laws of the Residential Neighborhood, *the 2nd International Architecture Conference of Assiut University*, Assiut, Egypt, March, **1996**, (in Arabic).