

Reham A. Abd el Wahab Hassan

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Personal

Data

- Full Name:** Reham ahmed abd el wahab Hassan
- Nationality :** Egyptian
- B.Date, Place :** 16/6/1989 , Beni-seuf
- Marital status :** Married
- No. of Membership in Egyptian Engineers Syndicate:**
27/03267

Languages

Arabic
English
French

Native
V. Good
Week

Educational Qualification

- PhD.** candidate in Environmetal Planning - Faculty of Urban and Regional Planning,Cairo University **2016**.
- MSc** in Architecture Engineering – Environmental Design & Planning in Cairo University "Sustainable Design of Street Networks in Urban Environments Using Genetic Algorithms Techniques" Under Supervisor Prof/Ayman Hassan, **2014**.
- Pre-master** in Cairo University, Environmental design & planning Department **2012-2013** with GPA "3.5" B+.
- BSc** of Architecture in Fayoum University **2011** with grade “good”68%.

Previous

Jobs

Experience

Architect Designer at Archbazar

<https://www.archbazar.com/> as freelancer

Nov.2016- Now

Teaching Assistant at American University in Cairo (AUC)
(Revit, Autocad, photoshop , Render Tutorials)

Feb 2015- Now

Tutor (Revit 2016 – Design Builder v4.5 - Grasshopper-
Ecotect2011-Envi met-UMI-Diva-...) at Algorithm

July2014- July 2015

Teaching Assistant at Cairo University Credit hours system
program(CHS).(Rhino , Grasshopper , Optimization Tutorials)

Dec2013-July2014

Quality control Engineer

Coordinate Test Engineer

at Focus company for engineering service , Saudi Bin Laden
Group

April 2013- July2014

Architect at MAU Design

Jan 2013-April 2013

Tutor at Egyptian Engineers Syndicate Training Center in Beni-
seuf

Jan 2012 – Dec. 2013

Teaching

Courses

/Workshops

- ENG 1015 Engineering Drawings , Autocad ,American University in Cairo, Dr/Reham el-Dessuky
- AENG 1521 Digital Representation Tools for Architects course , Autocad, Rhino,and Revit Labs , American University in Cairo with prof.Dr/Mohamed Nada .
- ARCN 432 Geometric Modeling , Rhino+ grasshopper Labs, Cairo University with Prof.Dr/ Ayman Hassan.
- Design Builder for Building Performance Simulations in Research Topics , Algorithn .
- Building Environmental Optimization workshop , Algorithn with Dr. Mostafa Rabea , Dr. Tarek Rakha.
- Autodesk Ecotect 2011 , Algorithn
- Autodesk Revit Architecture 2013 , Syndicate for engineering training center

As: Architect Designer:

- 1-Design of New Residential Villa in Riyadh, K.S.A. win Second Prize .
- 2-Remodeiling of Shabby Chic Peaceful Family Home in Oxford , United Kingdom.
- 3- Redesign of "Tamkean" Family Villa , Dammam, Kingdom of Saudi Arabia

Work In Projects

AS: Quality Control Engineer & Coordinate Test Engineer for These Projects:

Harmain High Speed Rail (HHR), Makah station, Norman foster & partners design & Dar Al-Handasah Consultants.

Makah first Ring Road Project:

- Kudai station . - Qeshshia Tunnel

Shamiya Project – Third & Fourth Extension Of Holy Haram :

- Service Building
- Central Utility Complex(CUC) - Landscape
- Haram Buildings - Security Buildings - Mataf project

Holy Harm Hospital project- MEKKAH , Saudi Bin laden Group, Dar Al-Handasah Consultants

Madinah Haram Expansion Project , Madinah, Saudi Bin laden Group

AS: BIM Modeler with Shop Drawing :

Kingdom Tower Jeddah , Tallest tower in the world, Adrian Smith + Gordon Gill Architecture

AT MAU Design (Jan –April 2013)

Planning & design projects with environmental strategies

Graduation project:

Science & technology park in Automotive industry –with grade " very good ", 2011

Using Revit in Modelling

Courses

Active learning and Teaching Skills. American University in Cairo 2015,2014

- Optima+** digital fabrication cooperating with IAAC , Spain , Algoritm , Tutors : Aldo Sollazzo , Dr.Mostafa Rabea.
- Rob[Arch] Kinetic Architecture workshop** , Algoritm.
- Grasshopper parametric Modeling (Basic & Advanced levels)** , Tutor Dr/Mostafa Rabea Abdelbaset (PHD in University of Camerino ,Italy)
- Building & urban performance simulation (Diva & UMI programs)** ,Tutor Dr/Tarek Rakha (PHD Candidate At MIT,USA)
- Life Cycle Assessment** by Dr/Bernhard Steubing (PHD in ETH Zurich, Germany).

Pre-Master Courses

- Modeling Buildings & simulation energy in the Architecture (A Grade)
- Safety in projects & protecting building from fires (B Grade)
- Studies in Thermal systems & strategies for efficient in Buildings (A Grade)
- Studies in efficient lighting design (A- Grade)
- Sustainable landscape (A- Grade)
- Environmental strategies for efficient energy in buildings (B- Grade)
- Theories of Urban Development (B Grade)
- Technical Writing for scientific thesis (A Grade)

Digital Skills

A) Modeling Programs :

experience

CAD, Autodesk Architecture AutoCAD

Advanced 10 years

BIM, Autodesk Revit Architecture 2016
(included parametric component design)

Advanced 8 years

**Autodesk Navisworks
Dynamo**

Beginner 1 year

Algorithmic Modeling, Rhino + Grasshopper

Advanced 5 years

Kangaroo, Rabbit, octopus, Galapagos, Karmapa,
Hummingbird , flux plugins

Autodesk 3d Max + Mental ray + V ray Beginner 6 years

Google sketch up + V ray Advanced 8 years

B) Presentation Programs :

Autodesk impression 3.00 ...Vector program Advanced 7 years
(for Architecture manual presentation)

Autodesk sketchbook pro 6.0 (free drawing) Advanced 5 years

Adobe Photoshop (Editing photos) Advanced 6 years

C) Geographical & Environmental Programs:

-GIS (arch view) - Esri (for urban maps) Intermediate 6 years

-Elk , Decoding space Advanced 3 year
(Rhino + Grasshopper plug ins)

-Envi-met 5 years
-UMI 0.2 (Plug in for Rhino) Advanced 4 year
(environmental evaluation for Urban environment)

- Autodesk Ecotect Analysis Advanced 7 years
- EASE4.3

- Design Builder, Energy plus Advanced 6 years

- Radiance , Daysim,

- Honeybee+ ladybug, DIVA , Geco , Archsim (Rhino+ Advanced 4 years
grasshopper plug in)
(Simulations for environmental evolution)

Publications

-“ **Multi-Optimized sustainable urban Street networks using Algorithms**” , Eco-
Research organized by Egyptian group for Energy in buildings and Environmental design
Forum Research (EEER), IBPSA-Egypt, the American University in Cairo and the
Egyptian Syndicate , Marc 2015

- “**Reducing energy consumption in building through design process**” , scientific
research introduced in conference titled “sheikh zayed is green city” in Cairo university ,
sheikh zayed campus, Jan 2013.

Interest

- Algorithmic in Architecture
- BIM in Construction Projects
- Study to get GA, AP BD+C , AP ND LEED Certifications V4
- Sustainable Urban design & planning
- Urban planning , Architecture & Interior design impacts on human
- Python, processing programming

References

Available under request