

Taqui Abdin

Telephone: +2 012 7877 5744

Email: taqui.abdin@gmail.com

Nationality: British & Egyptian

I have enjoyed over 10 years of work in the architectural research and education field, specialising in thermal performance. The design process has always fascinated me, as both an educator and a researcher. I am interested in the pedagogical development of architectural education and I often try to test different methodologies in the studio or the lecture hall. My aim in the pursuit of an academic career is to develop knowledge and academic research that would promote the next generation of architects in generation of form and energy efficiency. I have great admiration for the process of idea generation.

Skills

- Course planning, lecture development and learning strategies
- Student mentoring
- Curriculum development
- Research
- Management of material resources
- Expert knowledge of energy, environmental design and sustainability engineering in buildings
- Building Energy Modelling: DesignBuilder, EnergyPlus and VisualDoE
- Building physics: climatic analysis, passive heating, passive cooling, natural ventilation and fluid mechanics
- Technological skills such as AutoCAD, MS Office, Rhino 3d, E-learning platforms, online conferencing, etc.

Academic Experience

FEBRUARY 2018–PRESENT

Assistant Lecturer / International Academy for Engineering and Media Science (IAEMS), Media City, Giza, Egypt

- Provide administrative support as student advisor and in student registration.
- Plan and develop the term schedule as well as liaise with adjunct professors.
- Developed the academic syllabus for the 2021/2026 academic plan.
- Archive course specifications standards as well as the archiving of course specification as per the National Academic Reference Standards (NARS).
- Participated in the development of the institutional strategy for accreditation in accordance with the National Authority for Quality Assurance and Accreditation of Education (NAQAAE).
- Plan and teach design courses level 1 to 5 as well as the graduation project.
- Plan and teach construction courses for building construction 1 to 3 and working drawing 1 and 2, covering the basics of construction from small low-rise buildings to widespan and high-rise buildings.
- Examination invigilation.
- Plan and teach specialised courses in environmental design and control and sustainable architecture.
- Taught and planned several other courses, including: architectural criticism, principles of construction, execution drawings, engineering drawing, history of architecture 1 to 4, project management, etc.

SEPTEMBER 2016 – 2018

Assistant Lecturer / Arab Academy for Science and Technology and Maritime Transport, Smart Village, Giza, Egypt

- Prepare course file documentation for courses taught in accordance with the Royal Institute of British Architects (RIBA) accreditation standards.
- Teach design to students of Design 5 Studio, where the focus is on contextual inclusion.
- Plan, develop and teach Environmental Studies 1 course: I introduced the students to the basics of climate, building physics (thermal and lighting)

- Plan, develop and teach Environmental Studies 2, where the focus is on the application of building energy performance standards and rating systems through the use of building energy performance simulation software (BEPS) such as EnergyPlus and DesignBuilder.
- Advise the dean on the development of the environmental architecture lab: I prepared technical specifications and other documentation for lab equipment and software, I was also involved in the tendering and selection of suppliers.

SEPTEMBER 2015 – JANUARY 2018

Assistant Lecturer / Institute of Aviation Engineering and Technology (IAET), Giza, Egypt

- Taught and planned several courses, including: graduation projects, architectural design, environmental design & control and environment & pollution.
- Worked on the archiving of course specifications in accordance with NARS.
- Worked the development of a Health & Safety and Crisis Management strategy as per NAQAAE requirements.
- Advised the architecture department on the development of the environmental architecture laboratory, as well as advising on energy efficient retrofits for various campus buildings.

APRIL 2016 – DECEMBER 2017

Research Assistant / The American University in Cairo (AUC), Cairo, Egypt

- Participated in research on studying and optimising thermal and lighting for various hospital room types with the Architecture School.

SEPTEMBER 2012 – SEPTEMBER 2015

Committee Member / National Housing & Building Research Centre (HBRC), Giza, Egypt

- Contributed on the upgrading, research and development of the Egyptian Energy Efficiency Building Code (EEEBC).
- Supported in the establishment of the Arab Energy Efficiency Building Code (AEEBC), commissioned by the League of Arab States (LAS).

AUGUST 2011 – SEPTEMBER 2012

Research & Teaching Assistant / Department of Architecture, Faculty of Engineering, Cairo University, Giza, Egypt

- Tutored several design courses where the focus was on architecture and the Egyptian revolution.
- Audited the energy performance of various designs for a number of clients as part of an energy auditing team. I produced simulation results and schematic drawings with various building skin designs and retrofits, I was also responsible for producing documentation for the clients.
- Worked on the planning the REINUA workshop (entitled: Integration of Renewable Energy Technologies in Urban Areas in Hot Arid Climates) in Aswan. The workshop was in partnership with Newcastle University and was funded by the British Council and the Science, Technology & Innovation Funding Authority (STDF).
- Worked on the design and construction of the Department of Architecture twin room lab, a project partnered with Newcastle University, Lund University and the Royal Institute of Technology in Stockholm (KTH), the project was funded by the European Commission Tempus Programme. I attended a DesignBuilder training workshop in the UK as part of the project.

Publications and Media

- Speaker on Energy Efficiency and Passive Design part of the Green Hour series of talks hosted by the Goethe Institute in Ramallah, Occupied Palestinian Territories (https://www.youtube.com/watch?v=GXXkDWvJnHw&ab_channel=Goethe-InstitutRamallah)
- Comparison between environmentally designed houses and standard houses regarding thermal behaviour. M Nessim, T Abdin, Z Mostafa; IOP conference series: Earth and Environmental science, Volume 329; DOI: 10.1088/1755-1315/329/1/012031
- A checklist for the assessment of energy performance of public schools in Cairo, Egypt. Taqui Abdin and Ayman Hassaan A Mahmoud; Proceedings of SDBE2017; DOI: 10.13140/RG.2.1.3045.7684

Professional Experience

SEPTEMBER 2010 – PRESENT

Senior Architect / Abdin Consult, Giza, Egypt

Day-to-day design management of the office; creating conceptual designs, schematic designs, space planning, and presentations by sketching or computer modelling, as necessary. Supervising/training junior architects to develop designs, working drawings and architectural detailing. Setting project objectives, requirements and budgets with partners and clients as well as coordinating workflow with partner consulting firms (structural engineering, electromechanical, etc.).

Promoted from Architect, focusing on design drafting, including preliminary drawings, working drawings and full detail drawings for architectural, structural and mechanical works associated with building construction. Prepared research for new projects, ensuring design parameters are current.

Projects:

- National Authority for Remote Sensing and Space Sciences (NARSS), Egypt: new headquarters complex (departments, labs, administration, etc.)
- National Research Institute of Astronomy and Geophysics (NRIAG), Egypt: laser telescope building, geomagnetism building; Katameya labs, lecture hall and rest house; Fayoum labs, lecture hall and rest house; Abu Simbel labs and rest house
- Qassim University, Saudi Arabia: administration building and library building

JANUARY 2006 – JUNE 2006

Junior Architect / Zuhair Fayez Partnership (ZFP), Cairo, Egypt

Worked on the design of buildings in the new King Khaled University campus in Abha, Asir, Saudi Arabia

Administration Building
Stadium
IT Centre

Sports Centre
Residential Area
Medical School

JUNE 2005 – DECEMBER 2005

Junior Architect / Abdin Consult, Giza, Egypt

- Worked with the chief site engineer supervising contractors' progress on various building for NRIAG (labs and rest house in Arish, administration building and multi-storey car park in Cairo)
- Worked the development of working drawings for the Civil Aviation Club (Aero Sports Club) in Cairo

Education

CURRENTLY

PhD Candidate / Environmental Architecture / Cairo University, Giza, Egypt

Thesis title: *A methodology towards improving hospital indoor air quality for new settlements in Egypt: with reference to hospital associated infections in patient rooms*

JANUARY 2015

MSc / Environmental Architecture / Cairo University, Giza, Egypt

Thesis title: *Developing a check list for the assessment of energy performance in public schools*

MAY 2010

BA / Architecture / Newcastle University, Newcastle upon Tyne, UK

Completed 280 credits out of 360

MAY 2005

BSc / Architectural Engineering / Cairo University, Giza, Egypt

Activities

JUNE 2018 – JUNE 2019

Pro-Bono Designer / Nile River Montessori, Giza, Egypt

Interior designer and site supervisor for Nile River Montessori preschool. In addition to preparing the initial marketing designs.

JUNE 2018 – JUNE 2019

Freelance Graphic Designer / International Organisation for Migration, Cairo, Egypt

Subcontracted through SilverKey Technologies to design the logo for a refugee services website for the IOM. <http://bosla.info/>

JUNE 2012 – DECEMBER 2012

Volunteer Architect / Nawaya, Giza, Egypt

Nawaya is an Egyptian agricultural sustainability initiative, focusing on sustainable gardening and farming. I was responsible for the setting up and running of an educational workshop (for architecture students) teaching passive design techniques. The outcome of this workshop was the development of several design alternatives for Nawaya's HQ learning centre in Sakara.

JUNE 2011 – JULY 2011

Pro-Bono Designer / Al Ghafer Mosque, Giza, Egypt

Worked on upgrading the façade of Al Ghafer mosque, a local community mosque in the Omrania district of Giza.

JUNE 2006 – DECEMBER 2006

Intern Architect / Architektengruppe Schwetzer + Partner, Braunschweig, Germany

Responsible for the as-built drawing of Berlin Havelhohe, Cristliches Klinikum in Melle, Elisabeth-Krankenhaushaus in Essen, Friederikenstift in Hannover and Kinderhospital in Osnabrück. These drawings were prepared for the architectural designers and interior designers of the firm.

JUNE 2002 – JULY 2003

Conference & Exhibition Organiser / Arabian Group for Development (AGD), Cairo, Egypt

Worked on the organising of Interbuild 9 & 10 Exhibition and Conference. I was responsible for public relations with foreign exhibitors and business matchmaking local exhibitors with foreign exhibitors.

SEPTEMBER 2002 – MAY 2003

Participant / International Student Leadership Conference (ISLC), Cairo, Egypt

Participated in the ISLC workshop entitled "Odyssey of the Mind".

DECEMBER 2002 – JUNE 2003

Organising Participant / Union of Mediterranean Architects (UMAR), Giza, Egypt

Participated in organising and setting up the first conference for ASYA-MED (Association of Students and Young Architects), an offshoot of UMAR. The conference involved various members from Egypt, Turkey, Morocco, Tunisia and Greece.

JUNE 2001

Participant / Union of Mediterranean Architects (UMAR), Aegina, Greece

Involved in a workshop aimed at finding a suitable project for the renovation and reuse of the Kapodistrian Orphanage (a former prison until 1985). The aim was to create a culture magnet on the site.