

Ayman Elmasry MSc, BSc

PHONE: +44 7541 546823

EMAIL: elmasry.ayman@gmail.com

WORK EXPERIENCE

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| Nov 2019
(Current) | <p>Design Manager at HAZ INTERNATIONAL LTD.
<i>Hatfield, Herts', UK</i></p> <p>Managing all aspects of design and engineering for HAZ International, including but not limited to: tendering and customer enquiries, system design, manufacturing drawings, structural and building physics calculations, and product certification and approval (BBA, NHBC/LABC...etc.). Reporting to Managing Director.</p> |
| AUG 2015
(Current) | <p>Design & Engineering Development Unit Head at HAZ GROUP</p> <p>Managing a multidiscipline research and development team (Structural, Industrial, and Architectural) for HAZ Group management on portfolio level, for all engineering and design aspects of the group's offering. Scope of work includes standardisation and development of processes (method statements, QA manuals, standard calculation methods...etc.), BIM process optimisation, participation in product development and certification (e.g. DIBt, ETA), FEA/M and calculation development for certain systems. In addition to research for different facade systems (unitised, panelised, stick, rainscreen) and their related components. All under a central knowledgebase project that encompasses all HAZ Group activities. Reporting to HAZ Group Deputy Chairman.</p> |
| OCT 2017 | <p>Design Manager at HAZ METAL FIXING SYSTEMS UK LTD.
<i>London, UK</i></p> |
| DEC 2012-JULY 2015 | <p>Technical Manager at HAZ MERMER MARBLE JV, Cairo
<i>Grand Egyptian Museum – Phase III</i></p> <p>Technical management for HMMJV (major subcontractor) for completion of a subcontract of +40 million USD value. Responsibilities included Coordination with planning, commercial, quality and construction management, and delegated to coordinate with the Main Contractor and issue formal correspondence on behalf of HMMJV on all technical-contractual issues. Also responsible for technical management of vendors, suppliers and contracted consultants. Subordinates number reached a peak of 15 Engineers and Architects (3 seniors and 12 juniors). Reported to Project Director / Area Manager.</p> |
| DEC 2011-DEC 2012 | <p>Project Engineer at HAZ MARBLE EGYPT LTD, Cairo
<i>Qatari Diar Nile Corniche Project – St. Regis Hotel</i></p> <p>Acted as a de facto deputy for project management for technical, procurement and construction work in the initiation phase of the project, for the completion of a subcontract of +6 million USD value. Responsibilities included preparation and coordination of technical deliverables, formal correspondence with the Main Contractor. Responsible also for planning and scheduling deliverables. Supervised construction and surveying team. Reported to Project Manager.</p> |

MAY 2010-NOV 2011	Architect at ART VISION, Cairo Participated in the design and graphical visualization of numerous architectural and interior design projects located in Egypt, KSA and UAE. Architectural graphical visualization work included contribution to large scale animation projects. Participated in design for major architectural contests. Worked in a project team environment
SEP 2009-APR 2010	Junior Architect at ENVIRO-CIVEC, Cairo Technical documentation (working drawings) of multi-billion pound (EGP) infrastructure, industrial and plant projects. Architectural detailing of residential projects. Worked in a multidisciplinary team of engineers (civil, structural, MEP ...etc.)

EDUCATION

SEP 2017 – APR 2019	Master of Science in FAÇADE ENGINEERING with Merit, CWCT taught MSc course (previously in Bath University) University of the West of England, Bristol Dissertation: <i>“Natural Stone Point-fixed Cladding Systems Optimisation and Reliability-based Design”</i> Supervisor: Dr Richard Harris
JULY 2014 – SEPTEMBER 2009 (dropped-out)	Master of Science in ARCHITECTURAL ENGINEERING, Building and Construction Technology Ain Shams University, Cairo Thesis: <i>“Algorithmic Form Generation: A Thermal Building Envelope Design Approach”</i> Short Synopsis: Optimisation of building envelope thermal performance using evolutionary computer algorithms. Advisors: Prof. Ahmed ATEF and Dr. Hazem ELDALY Pre-Masters GPA: 3.3
AUGUST 2009	Bachelor of Science in ARCHITECTURAL ENGINEERING Higher Technological Institute, Cairo GRADE POINT AVERAGE: 2.9 GRADUATION PROJECT: <i>“The Green City: A Zero Footprint City in Aswan”</i> Project Grade: 90% - Distinction

PROFESSIONAL CERTIFICATES

6 JULY 2016	CENTRE FOR WINDOW AND CLADDING TECHNOLOGY (CWCT) UNIVERSITY OF BATH, UK Curtain Walling Design and Construction Course for Building Professionals
9 JUNE 2013	PROJECT MANAGEMENT INSTITUTE, USA Certified PROJECT MANAGEMENT PROFESSIONAL PMP NUMBER: 1615073

PUBLICATIONS

- 2 FEB. 2014 | Research Paper: *Architectural Utilisation of Computer Algorithms in the Optimisation of Building Envelopes Thermal Performance*
Publisher: JOURNAL OF AL-AZHAR UNIVERSITY – ENGINEERING SECTOR

NOTABLE ACHIEVEMENTS

- 19 SEPTEMBER 2014 | FACADE LAB GMBH NETWORKING DAY 2014
Participated in the organization of an event held at the Facade Lab GmbH, in Grossbeeren, Berlin, and conducted a 12 minute presentation segment, titled: *"The Value of Engineering"* for an audience of around 150 from design, engineering and contracting firms from Germany and Europe, on a case study of value engineering contracted to Priedemann GmbH, for a 100 Million USD steel and stone wall structure for the Grand Egyptian Museum in Egypt.
- 5 APRIL 2016 | SUSTAINABLE DEVELOPMENTS EXHIBITION AND CONFERENCE 2016
Participated in the SDEC—an event held in Cairo, Egypt, and sponsored by the Egyptian Ministry of Environment— and conducted a 30 minute presentation segment titled: *"The Value of Optimisation in Façade Design and Engineering"*, which discusses the design and construction principles of building facades and the sustainability aspects or impact of each, and the role of the façade specialist in the process. Event was organized by Root Technologies under auspices of Ministry of Environment
- 28 SEPTEMBER 2016 | INTELLIGENT CITIES EXHIBITION AND CONFERENCE 2016
Participated in the ICEC—an event held in Cairo, Egypt, and sponsored by the Egyptian Ministries of Environment, Investment, and Housing – and conducted a 30 minute presentation segment titled: *"Intelligent Systems in Façade Industry"*, which discusses the use of computer aided technologies in engineering, fabrication, and planning of Building Façades and their construction. Event was organized by Root Technologies under auspices of Ministry of Environment
- 17 APRIL 2016 | FAÇADE ENGINEERING PROFESSIONAL DIPLOMA LECTURE
Gave a 3 hour lecture as part of a Professional Diploma for Façade Engineering, approved by the Egyptian Engineers Syndicate. The lecture was titled: *"Design and Construction Principles of Mechanically Fixed Ventilated Natural Stone Façades"*. Diploma is organized and hosted by Infinity Solutions SAE under auspices of Engineers' Syndicate.

COMPUTER SKILLS

- Advanced Knowledge: Autodesk Inventor, Autodesk AutoCAD, Primavera P6, Dlubal RFEM, SAP2000, PTC Mathcad
- Intermediate Knowledge: Autodesk Revit, Rhinoceros 3D+Grasshopper
L^AT_EX (typesetting language)
- Basic Knowledge: Tekla Structures

LANGUAGES

- ENGLISH: Fluent (IELTS Overall Band Score: 8.5)
- ARABIC: First Language
- GERMAN: Basic Knowledge (CEFR Aprox. A2)