



Aly Ahmed

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Member of the BIM European Master program "BIM A+" with +5 years' experience in civil and structural fields. I spend the last year studying Building Information Modeling with the best professionals from three major European universities. I am seeking to enrich my knowledge in BIM technology for the AEC field.

● EDUCATION AND TRAINING

15/03/2021 - CURRENT - Guimarães, Portugal

BIM A + EUROPEAN MASTER'S IN BUILDING INFORMATION MODELING – Universidade do Minho 🇵🇹

Field(s) of study: Building of information modeling.

Thesis: ISO19650 compliant procedures in a Structural Design Office

01/10/2020 - 15/03/2021 - Milan, Italy

BIM A+ EU – II LEVEL SPECIALIZING MASTER – Politecnico di Milano 🇮🇹

Field(s) of study: Building of information modeling.

Course work of BIM A+ Master Program are divided into the following:

- BIM A+1: Management of information and collaboration in BIM.
- BIM A+2: Modelling in Architecture and Engineering.
- BIM A+3: Parametric Modelling in BIM.
- BIM A+4: Advanced BIM data systems and interoperability.
- BIM A+5: 4D, 5D, 6D modelling and applications.
- BIM A+6: BIM-based rehabilitation and sustainability analysis.

01/01/2015 - 01/07/2019 - Cairo, Egypt

MASTER OF SCIENCE OF STRUCTURAL ENGINEERING – Ain Shams University 🇪🇬

Field(s) of study: Structural Engineering

Thesis: Performance of Geopolymer Concrete Containing Recycled Rubber.

GPA: 3.46/4.00.

Published paper: Construction and Building Materials Journal.

20/09/2009 - 01/07/2014 - Cairo, Egypt

BACHELOR OF SCIENCE OF STRUCTURAL ENGINEERING – Ain Shams University 🇪🇬

Graduation project: distinction

Grade: good

● WORK EXPERIENCE

15/03/2021 - CURRENT - Porto, Portugal

BIM ENGINEER - INTERN – NEWTON ENGINEERING CONSULTANTS

The scope of the dissertation is to implement ISO19650 on Newton engineering consultancy processes, which include:

- Revising currently existing templates in the proprietary platform underuse (Revit), increasing flexibility and compliance to regulations.
- Establish procedure technical manuals.
- Automate the process of extracting the QTO, formwork areas, footing insulation areas, and create modeling for it through Dynamo scripts.
- Updating infrastructure for CDE and internal naming conventions.
- Defining internal libraries, procedures and apply the classification systems of objects.
- Process mapping, and responsibility matrix definition.

01/10/2020 - CURRENT - Milan, Italy

MSC STUDENT – ERASMUS MUNDUS SCHOLAR – BIM A+ MASTER PROGRAM - <https://bimaplus.org/>

The objective of BIM A+ is to offer an advanced education program on BIM integrated design, construction, and operation processes, with a strong focus on the collaborative practices that are the cornerstone of such integration. The Master combines the diversity of expertise at leading European universities in the relevant fields, offering education oriented to a multidisciplinary understanding of virtual construction through the involvement of experts from complementary fields (engineers, architects, programmers, and others).

01/04/2018 - 15/09/2020 - Cairo, Egypt

CIVIL ACCEPTANCE ENGINEER – VODAFONE EGYPT

- Inspection of Vodafone towers and sites; from the civil point of view.
- Vendor/ contractor management, supervision of the vendor's quality at sites.
- Safety Engineer.

01/03/2017 - 01/03/2019 - Cairo

RESEARCH ASSISTANT – EGYPTIAN NATIONAL RESEARCH CENTRE

- A part of researching team at **Civil Engineering Department**.
- Working on researchers about Geopolymer concrete.
- Participated at **11th International Conference on Nanotechnology in Construction (Green and Sustainable Construction) – NTC 2019**.
- Have a published scientific paper under title "**Investigation of Compressive strength of Rubberized Geopolymer Concrete**".
- Have a published scientific paper entitled "**Performance of Geopolymer Concrete Containing Recycled Rubber**" at **Construction and Building Materials Journal**.

01/10/2014 - 01/04/2018 - Cairo, Egypt

PRE-SALE DESIGNER AND COST ESTIMATOR – ZAMIL STEEL EGYPT CO.

- Providing support to sales through preparing estimates by calculating complete take-off of the scope of work for proposals.
- Providing design options and recommending the best solution based on cost engineering quality, or availability of materials.
- Zamil steel Egypt representative at Africa Expo 2017 in Kenya.

LANGUAGE SKILLS

Mother tongue(s): ARABIC

Other language(s):

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
ENGLISH	C1	C1	B2	B2	C1
ITALIAN	A1	A1	A1	A1	A1

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

Digital Skills

Microsoft Office | Autodesk AutoCAD | MS Project

BIM Skills

Dynamo | Autodesk Revit | BIM | Autodesk Navisworks | basic of python | Bexel Manager

Personal Skills

Organizational and planning skills | Teamwork oriented | Enjoy multi-cultural environment and interactions
Research skills | Travel, Music, Photography Fast Learner.