



# 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.

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 **11<sup>th</sup> 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	
<b>ENGLISH</b>	C1	C1	B2	B2	C1
<b>ITALIAN</b>	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.