

RAWAN DARWA  
Curriculum Vitae

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## I – General Information

Name and Last Name	Rawan Darwa
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E-mail	rawandarwa96@gmail.com
Language	English, Italian, Arabic

## II – Education

### IIA – PhD Degree

**Ongoing a Double Ph.D.** in the Faculty of Science of Antiquities at “Sapienza University, Rome-Italy” and the Institute of Architecture and Urbanism at the “University of São Paulo, São Paulo-Brazil.”

Thesis title: Bridging HBIM and Generative Design: A Comprehensive Approach to Heritage Building Optimization.

**Within the Italian National Heritage Scholarship**

### IIB – Master’s Degree

**2022 Master’s of Architecture Conservation**, Faculty of Architecture “Sapienza University, Rome-Italy.”

Thesis title: HBIM as A Tool for Heritage Presentation of Santa Maria In Trastevere

- 110 with Honors /110 with dignity of the press.

### IIC – Bachelors Degree

**2020 Bachelor of Architectural Engineering**, Faculty of Engineering “Menofiya University, Shibin-Egypt.”

Thesis title: Recreation Park and Rehabilitation of Historical Villas at Kafr Rabea, Menofiya-Egypt.

## III – Teaching

### Sapienza University of Rome

#### 1. 2023-2024

HBIM for Architecture, Second Academic semester, Second Year of the Architecture Conservation (Restoration) Master’s degree

- Associate Professor.

#### 2. 2023-2024

Architectural Survey, First Academic semester, First year of the Architecture Conservation (Restoration) Master’s degree

- Associate Professor.

#### 3. 2023-2024

Representation Science III, First Academic semester, Second year of the quintal Architecture (Restoration) Bachelor’s degree

- Associate Professor.

## IV – List of publications

2023

1. Alfonso Ippolito, Martina Attenni, Rawan Darwa. 2023. HBIM As a Tool for Heritage Presentation of Santa Maria in Trastevere. *SCientific RESearch and Information Technology (SCIRES)*, Volume 13, Issue 1, Rome (Italy). ISSN: 2239-4303. DOI: <http://dx.doi.org/10.2423/i22394303v13n1p53> (Class A journal)
2. Alfonso Ippolito, Cristiana Bartolomei, Davide Mezzino, Martina Attenni, Rawan Darwa. 2023. Digital Documentation Strategies for The Knowledge of The Basilica of Santa Maria in Trastevere. *The 29th CIPA2023 Symposium "Documenting, Understanding, Preserving Cultural Heritage: Humanities and Digital Technologies for Shaping the Future."* Florence (Italy). DOI: <https://doi.org/10.5194/isprs-archives-XLVIII-M-2-2023-735-2023>. (Class A journal)
3. Alfonso Ippolito, Francesca Porfiri, Rawan Darwa, Michele Cipolletta, 2023. From Historical Analysis to HBIM Information Models: A Critical Process on The Cloister of S. Maria Della Pace. *3D Modeling and BIM conferenza soluzione per il culturale Heritage, Rome (Italy)*, DEI s.r.l. Tipografia del Genio Civile, ISBN 979-12-5505-129-9

2021

4. Alaa El-Habashi, Yassmen Hesham, Rawan Darwa. 2021. Bustans in the Historic Buildings of Cairo: Bayt Yakan and its Surrounding Sustainable Neighborhood. *ERJ, Engineering Research Journal, Faculty of Engineering, Menoufia University, Monofiya (Egypt)*. PART 4, Volume 44, Issue 2, pp. 221-232. ISSN: 1110-1180, DOI: <https://doi.org/10.21608/erjm.2021.56089.1061>

## V – Conferences participation

**7 November 2023** 3rd Italy-Korea Symposium on Disaster Prevention and Preservation of Cultural Heritage using Advanced ICT Technology - Rome, Italy

- Presentation speaker
- Participant

**10 November 2023** REACH - Online

- Presentation speaker
- Participant

**25-30 June 2023** The 29th CIPA2023 Symposium "Documenting, Understanding, Preserving Cultural Heritage: Humanities and Digital Technologies for Shaping the Future." Florence, Italy

- Presentation speaker
- Participant

**12 April 2023** 3D Modeling & BIM. Solutions for Cultural Heritage. Rome, Italy

- Presentation speaker
- Participant

## VI – Thesis supervision assistance

1. University: Sapienza University of Rome  
Course: Master's Program in Architecture Conservation (Restoration)  
Thesis Title: Reconstructing History: A Digital Journey Through The Nymphaeum of Villa Dei Quintili.  
Supervisor: Alfonso Ippolito  
Assistant supervisor: Rawan Darwa  
Final Mark: 109 /110
2. University: Sapienza University of Rome  
Course: Corso di Laurea Magistrale in Architettura (Restauro)  
Thesis Title: Dall'analisi storica ai nuovi modelli informatizzati HsBIM: un processo critico sul Chiostro di Santa Maria della Pace.  
Supervisor: Alfonso Ippolito  
Assistant supervisor: Francesca Porfiri  
external supervisor: Rawan Darwa  
Final Mark: 110 cum lode/110

## VII – Workshop participation

- 2023** "The Digital Survey of Fiumefreddo Abruzzo" with Sapienza University of Calabria, Italy
- 2022** "Spessori urbani e territoriali. Dal progetto di suolo alla riqualificazione e valorizzazione del patrimonio storico a Siena" with Sapienza University of Rome, Italy
- 2020** "Principles of buildings restorations using laser and nano technologies training" with Ministry of Antiques, Egypt.
- 2019** " Architectural Bim Engineer, Bim Specialist, Revit-Families, Bim Manager, Dynamo, Bim Developer" with BIM Solutions certified education center from Autodesk, Egypt
- 2019** "Urban Resilience and Regeneration Design Workshop and Green Roof Design and Applications" with arch space and TU Campus Gouna, Egypt
- 2019** "Landscape Architectural Design course" with Egyptian Polish Center, Egypt
- 2018** "Restoration laws and practices in Egypt" with Turath Baladna non-profit organization, Egypt
- 2018** "Parametric design applications using grasshopper, rhino five workshop and grasshopper vl. two courses" with NAD Laboratory, Egypt
- 2018** "Reuse and rehabilitation of historical buildings' courtyards" with Japanese embassy and – TCG architectural conservation and heritage management, Egypt
- 2018** "Methods of scientific research in The field of Egyptian historical monuments " with the Egyptian National Museum, Egypt
- 2017** "How to start your own business" with the European Union Innovation Project for Entrepreneurs, Egypt.

## VIII – Certifications

- A. Autodesk Revit Certified Professional, Autodesk
- B. BIM Manager, Autodesk
- C. BIM Coordinator, Autodesk
- D. Ilets- English Language, British Council-Egypt
- E. Italian Language, CPIA 4 Rome-Italy

## IX – Technical Skills

Autodesk Revit	Autodesk AutoCAD	Lumion	Grasshopper	Photoshop	Microsoft Word
Rhinoceros	Autodesk Recap	Enscape	Dynamo	Illustrator	Microsoft Excel
Blender 3D	Metashape			InDesign	Microsoft PowerPoint
Vectorworks	CloudCompare				

## X – Work and Internship Experience

- Date (from to) From 12/12/2022 to 30/11/23
- Name and address of firm VALLE 3.0  
Address: Via C. Fracassini 18, Rome, Italy
- Type of business or sector Architecture/BIM Studio
- Type of employment Work
- Main activities and responsibilities Architect/BIM Coordinator
  - Multidisciplinary coordination within the BIM project,
  - Create BIM models to retrofit based on geometrical scans and schematic drawings.
  - Prepare tables, drawings, and schemes to obtain construction permits for various projects.
  - Produce informative and visually appealing architectural drawings and renders.
  - Meet and engage with potential clients
  - Creating as-built BIM model based on technical drawing
  - Ensuring correct integration of the BIM process
  - Detecting and fixing clashes in the BIM model between various systems
  - Modeling of custom BIM families to fit project needs
  
- Date (from – to) From 05/10/2022 to 09/12/2022
- Name and address of firm ARS PROGETTI S.P.A.  
Address: Via Durban 2- 00144 - Rome, Italy
- Type of business or sector Architecture Conservation International Firm
- Type of employment Work
- Main activities and responsibilities Conservation Architect, BIM Specialist:  
Working on Heritage and conservation-based projects.
  - Working across all concepts, preliminary and detail design phases
  - Site surveys and assessment
  - Production of materials, decays drawings
  - Production of design and technical drawing packages
  
- Date (from to) From 01/04/2022 to 30/05/2022
- Name and address of firm GSVDESIGN SOCIETA' COOPERATIVA  
Address: Via Massimo D'Azeglio 11 - 00073 Castel Gandolfo Rome, Italy
- Type of business or sector Architecture Studio
- Type of employment Internship
- Main activities and responsibilities Architect/BIM Specialist:
  - Return a survey performed by a laser scanner (cloud of points) with BIM software up to the definition required for the executive design.
  - Production of the graphic drawings necessary for the realization of the work.
  - Drafting of the technical documentation containing the construction specifications
  - Ensuring compliance with the BIM procedure guidelines.
  - Creating new dynamo scripts for work time management.

- Date (from to) From 01/10/2021 to 31/03/2022
  - Name and address of firm ENEA - AGENZIA NAZIONALE PER LE NUOVE TECNOLOGIE, L'ENERGIA E LO SVILUPPO ECONOMICO SOSTENIBILE  
Address: Lungotevere Thaon di Revel, 76 - 00196 Rome, Italy
  - Type of business or sector Divisione per lo Sviluppo Sistemi per l'Informatica e l'ICT (TERIN-ICT)
  - Type of employment Internship
  - Main activities and responsibilities Architectural Restoration Researcher:
    - I used numerical computing facilities for HBIM, Digital Twin Model, and computational graphics through remote access to ENEA's ICT computing infrastructure.
    - Collaboration using the web tools made available through the ENEAGRID infrastructure of ENEA responsibly achieving the planned objectives within the agreed time frame.
    - Acquire acquaintances for the advanced use of the calculating facilities for graphical computational 3D starting from point clouds to create models through remote access to Metashape, Blender, and CloudCompare software.
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- Date (from – to) From 17/08/2018 to 16/11/2020
  - Name and address of firm TCG ARCHITECTURAL CONSERVATION AND HERITAGE MANAGEMENT  
Address: al-Zahraa Street 49 - 12411 Dokki Giza, Egypt
  - Type of business or sector Architecture Studio
  - Type of employment Internship
  - Main activities and responsibilities Architect/Conservator:
    - collaboration to design "Bustan" (a garden in Arabic) in a historic courtyard house (Beit Yakan) in Cairo in partnership with a prominent Dutch Studio (Lada Bureau).
    - Supervise site work during the collaboration, starting with plant selection suited for the climate, steel, and wood works, and material selection until the garden's opening for the public.
    - Designing a historical hall to be reused as a public library, starting with restoring all existing elements, fire safety measurement, HVAC installation, electrical fixtures, and lighting, and completing all the necessary drawings and documentation.