

# Hunia Tarek Tomoum

DESIGN MANAGER - ARCHITECTURAL DESIGNER - COMPUTATIONAL DESIGNER - INTERIOR DESIGNER - URBAN DESIGNER - TUTOR

78 El Tayaran st, Nasr, City, Cairo, Egypt, 11371

☎ (+2) 0100 532 32 39 | ✉ huniatomoum@gmail.com | 🏠 huniatarektomoum.github.io | 🇪🇺 Fully Eligible for the Blue Card in the EU

“They know enough who know how to learn.” - Henry Adams

## Skills

- Proficient** 3D Max + V-Ray + corona (modeling and rendering), Autocad, Indesign, Grasshopper  
**Very Good** Rhinoceros, HTML, CSS, Photoshop, Adobe Premier, Microsoft office  
**Good** Arduino, Illustrator, Animation in 3D Max, Processing, Maya (Ncloth), python, pytorch, pandas, numpy, matplotlib  
**Languages** **Fluent:** Arabic, English || **Fair:** French || **Novice:** Deutsch and Spanish

## Experience

### EA Design-House

DESIGN PARTNER

Cairo, Egypt

Sept. 2022 - Present

- Develop a design strategy aligned with EA-Design-House objectives.
- Manage quality and consistency of design outcomes.
- Managing the design team

### Arab Academy for Science and Technology (AAST)

INSTRUCTOR

Cairo, Egypt

Oct. 2021 - Present & 2008 - 2017

- Supervised graduation and design studios' projects.
- Prepared courses' outline and materials.
- Graded courses' projects.
- Assisted in teaching the following courses:
  - Introduction to site planning and Housing
  - Spatial Experience Design Studio
  - Sustainable Design Studio
  - Introduction to Architecture Design Studio
  - Digital technology and Advanced theories in Architecture Design Studio
  - Creativity & Innovation and Multi-talented course
- Part time in the following periods: Feb. - Dec. 2017 | Feb. - July 2016 | Feb. 2014 - June 2015 | Feb. - June 2013 | Sep. 2008 - June 2011

### American University in Cairo (AUC)

TEACHING ASSISTANT/INSTRUCTOR

Cairo, Egypt

Sep. 2021 - Dec.2021 & Oct. - Dec. 2016 &

Sep. 2013- June 2014

- Assisted in teaching Contextual Architecture Design studio.
- Assisted in teaching Digital Design Studio and workshop.
- Prepared and taught Grasshopper tutorials
- Supervised and graded projects.
- Created and corrected Quizes.

### Freelancing - Teaching

FREELANCE ARCHITECT & TEACHING INSTRUCTOR

Cairo, Egypt

Jan 2018 - Sept. 2022

- Online Teaching: Published an online course on Udemy. It can be viewed on my profile page: <https://www.udemy.com/user/hunia-tarek-tomoum/>
- Freelance Architect: Design, supervision and Execution of Architecture and Interior design projects

### EA Design-House

DESIGN MANAGER

Cairo, Egypt

Mar. 2017 - Mar. 2018

- Developed a design strategy aligned with EA-Design-House objectives.
- Managed quality and consistency of design outcomes.
- Training the design team
- Set the infrastructure of documentation and deliverables

## Sharabassy Built Environment

Cairo, Egypt

### DIGITAL TECHNOLOGY AND DESIGN TEAM LEADER

Sep. 2014 - Jan. 2016

- Set and lead digital technology and design team; material experimentation (Bioplastic), architecture, product (using folding techniques) and interactive design.
- Carried out training programs in advanced theories, research, design, digital tools, coding, digital fabrication.
- Gave lectures, prepared and marketed for workshops.
- Projects include:
  - Downtown Q Australia Competition. (Australia)
  - Venicia resort by the sea, Urban, Architecture, and interior design (Saudi Arabia).
  - Planetary Urbanism competition in information design.
  - Trio Workshop: 3D Scanning, 3D printing, Laser cutting on various materials , and gaming
  - computational experimentation on commercial Administrative building (New Cairo)
  - Bioplastic printing, using 3D printer to create fixing tools and by hacking laser cutter and using a syringe for deposition.
  - Series of experimental Bioplastic workshops
  - Digital Experimentation with art of folding using grasshopper

## EHAF Consulting Engineers

Giza, Egypt

### SENIOR ARCHITECT

Sep. 2012 - Jan. 2014

- Structured and lead the architecture design team.
- Handled projects from conceptual phase till the design development phase.
- Projects were in the Middle East region.
- Participated in the following tasks: designing, modeling, rendering, presenting, attending meetings, supervising and coordinating tasks.
- Projects include:
  - Bank of Zanzibar competition, Architecture design (Tanzania).
  - Arab Sudanese bank, Architecture design (Khartoum).
  - Rubavu Stadium competition, Architecture design (Rwanda).

## EHAF Consulting Engineers

Giza, Egypt

### ARCHITECT

Aug. 2012 - Sep. 2013

- Worked in the architecture design team on interior, architecture, and urban design projects.
- Performed phases from conceptual to design development.
- Projects include:
  - Nile hotel, Architecture redesign and Interior design (Taba).
  - Malkeya hotel, Architecture and Interior design (Riyad).
  - Resort, Architecture and interior design (Ein El-Sokhna).
  - Grand Egyptian Museum hotel, Architecture design (Giza).
  - Villa's in Khartoum Baron residential compound , Architecture and interior design (Cairo).
  - Egyptian Embassy in Sudan, Architecture and Interior design (Cairo).
  - Egyptian Ministry of Foreign Affairs, Architecture design.
  - Egyptian Military Sports Club, Architecture design.
  - Egyptian Ministry of Internal Affairs, Architecture design (Cairo).
  - Hospital, Architecture design (Oman).
  - Metro Workshop area (Cairo).
  - Oil Libya Gas station (Cairo).
  - Egyptian Military complex gate and fence (Cairo).

## Alchemy Design Office

Cairo, Egypt

### ARCHITECT

Jan. 2009- June 2011

- Worked on interior, architecture, and urban design projects.
- Involved in all phases in a project from conceptual, design development phase till working drawings phase.
- Designed, modeled, rendered and presented and executed drawings the projects.
- Conducted verbal and written communication with clients, meetings, and coordinated in the projects.
- Projects include:
  - Pyramids Heights Phase C, Residential compound Architecture and landscape design (Cairo).
  - Pyramids Heights Phase D, Residential compound Architecture, urban and landscape design(Cairo).
  - G-Cirbs residential compound Interior design (Gouna).
  - Private villa, Client: Hatem El Nazer Interior, landscape and roof design (Gouna).
  - Talah complex (Saudi Arabia).
  - Mobic Building facade redesign (Giza).
  - Industrial City Planning (Egypt).
  - Ihsan Abd El Qoddoos museum, hotel and spa complex, Architecture, Urban and landscape (Giza)
  - Mercedes showroom redesign Architecture and Interior (Cairo).
  - Pyramids Heights Office building Architecture and interior design (Giza).
  - Private villa, Client:Nermin Moukhtar, Architecture, Interior and landscape design (New Cairo).

## Education

---

### Online self-learning)

remote

#### AI COURSES

1 Nov. 2019 - present

- Python, Pandas, and Matplotlib on Kaggle
- Essential Math for Machine Learning: Python Edition, Microsoft & DAT256x on EDX.org
- MATHematics in Khan Academy
- Intro to deep learning with Pytorch on UDA City

### ONA Academy (Professional Media Training)

Cairo, Egypt

#### EDITING AND MIXING TECHNIQUES FOR TV COURSE

4 - 8 June 2013

- ONA Academy is actively certified from Faculty of Mass-Communication (Cairo University), ONTV Channels, and O News Agency.

### Institute for Advanced Architecture of Catalonia (IAAC)

Barcelona, Spain

#### M.ARCH. IN ADVANCED ARCHITECTURE

2011-2012

- Grade "Very Good"
- Graduation Project: Water Harvesting Project.

### Arab Academy for Science and Technology (AAST)

Cairo, Egypt

#### B.S.C. IN ARCHITECTURAL ENGINEERING

2003-2008

- Grade "Excellent" | Rank "8th"
- Graduation Project: Egyptian Parliament.
- Accredited by the Royal Institute of British Architects (RIBA) part 1.

### Integrated Thebes Language School

Cairo, Egypt

#### IGCSE (CAMBRIDGE UNIVERSITY)

2000-2003

## Awards & Publications

---

- |      |  |              |
|------|--|--------------|
| 2014 | <b>First Place to EHAF Consulting Engineers</b> , Rubavu Stadium design competition   Leading a team of 7.       | Rwanda       |
| 2011 | <b>Evolvo Book</b> , Evolo skyscraper competition project   individual work.                                     | USA          |
| 2010 | <b>Albeit Magazine</b> , My biography and Evolo skyscraper competition project.                                  |              |
| 2010 | <b>Magaz Magazine</b> , My Biography, Evolo skyscraper Competition project, and +20 Egypt designweek.            |              |
| 2008 | <b>Honor Award</b> , 5th National Architectural students competition   Redesigning Al-Asbakeya area   Team of 3. | Cairo, Egypt |

## Competitions

---

- |      |  |                   |
|------|--|-------------------|
| 2020 | <b>Hill of Arts competition</b> , Young Architects competition - As member of IDS International Design Studio, USA | Italy             |
| 2016 | <b>Design &amp; Industry Competition</b> , Egyptian Furniture Export Council                                       | Cairo, Egypt      |
| 2016 | <b>International Architectural Competition for Science City</b> , Bibliotheca Alexandria                           | Alexandria, Egypt |
| 2016 | <b>Pamphlet Architecture</b> , Princeton Architectural Press   | New York, USA     |
| 2010 | <b>Saie Selection contest</b> , 1st Hoseo University Teenager Hacking Competition                                  | Bologna, Italy    |
| 2010 | <b>Evolvo magazine</b> , Skyscraper Competition  | USA               |
| 2008 | <b>5th national Architectural students competition</b> , Cairo University  | Cairo, Egypt      |

## Extracurricular Activity

---

### Cairo Designathon

Cairo, Egypt

#### DESIGN FACILITATOR

April 2021

- Design facilitator in Cairo Designathon Round 2
- Cairo Designathon is Egypt's first collaborative design marathon, aimed at generating innovative design solutions. Built as a collaborative design movement, CD aims to advance and highlight the importance of Design in causing positive Social Impact.

### Mini-Maker Fair Cairo

Cairo, Egypt

#### DESIGNER

March 2015

- Biomimicry of responsive Creatures; Pyrosomes, and Atolla Jelly fish.
- Material experimentation using bio-plastic, and interactive simulation using Arduino.
- Participated in a team of two as a designer from Sharabassy office.

### People's Biosensors for the City

Barcelona, Spain

#### WORKSHOP

Feb. 2012

- Four days workshop.
- Tutors: Uthman Haque and Natalie Jeremijenko.

## Matter, Materiality, and Material Organisation in Architecture

Barcelona, Spain

### WORKSHOP

Feb. - March 2012

- Eight days workshop.
- Tutors: Claudia Pasquero, and Andrea Bugli.

## Robotic Sand Forming

Barcelona, Spain

### WORKSHOP

May 2012

- Four days workshop.
- Tutors: Michael Knauss and Mirjan Ammar (ETH Zurich).
- Further details for the workshops attached in the Appendix.

## Egypt +20 Design Week

Cairo, Egypt

### YOUNG DESIGNER

June 2010

- Big event, prepared by the Ministry of Industry and Trade in Egypt, in collaboration with Dr. Amr Abd El-Qawi and top Egyptian product designers
- Street Art Installation: Initiated by me and developed in collaboration with a group of young designers and Dr. Amr Abd El Qawi.
- Lighting Fixture: in collaboration with Dr. Amr Abd El Qawi and Ayman Azabawi.

## 1st International Egypt Design + Industry Workshop

Milan, Italy

### YOUNG EGYPTIAN DESIGNER

Nov. 2008 - Feb. 2009

- Exhibited in Isaloni Milan April 2009 + Furnex Cairo, June 2009.
- The idea was to bring together 8 international Designers + 20 Egyptian Designers + 20 Egyptian Manufacturers in search for the Egyptian Identity in design

## Efficient Design

Cairo, Egypt

### WORKSHOP

2009

- Prepared by Ahmed Zaazaa.
- The challenge was to create smart solutions, for slums problems.

## Out of the Box Thinking

Cairo, Egypt

### SERIES OF WORKSHOPS

2007

- Series of workshops prepared by Dr.Amr AbdulQawi.
- **1st Project:** *Cardboard built furniture and structure* | Exhibited in the International Environmental Exhibition 2007 at Al-Azhar Park, Cairo-Egypt.
- **2nd Project:** *Cardboard built furniture* | Exhibited in (iEarn) Exhibition 2007 and in (Day of Science) Conferences hall, Cairo-Egypt.
- **3rd Project:** *Agha Khan* A two-day program | raining 9-10 year old children from Al-Darb Al Ahmar to make useful products out of broken and unused objects.

## People's Biosensors for the City

*Barcelona, Spain*

### WORKSHOP

*Feb. 2012*

- Duration: four days.
- Tutors: Uthman Haque and Natalie Jeremijenko.
- The aim of this workshop was to deploy an urban sensor network in Barcelona in four days using "Pachube" which is now (Xively)<sup>1</sup>, a real time data infrastructure and global community for the internet of things.
- In this workshop, a group obtained manual environmental data, then fed the data to Pachube, and another group uploaded to Pachube realtime environmental data using Arduino. So the real question was not just about making data public, but about how, why and where the public make data.
- Targeted questions were: How do all of us, as citizens, contribute to the data collection process? How do we learn from, understand and decide how to act upon our environments through the data we create or craft?"

## Matter, Materiality, and Material organisation in Architecture

*Barcelona, Spain*

### WORKSHOP

*Feb. - March 2012*

- Duration: eight days.
- Tutors: Claudia Pasquero and Andrea Bugli | Founders of (Ecologic Studio).
- The workshop operated as a mechanic protocol for the synthesis of the PALACE whose rooms coagulate from raw materials, organizational principles, individual experience as well as group coordination, all in real-time.
- The construction process runs as a cultivation experiment, rigorously in 1:1, from digital diagrams to prototyping and installation.
- Loop after loop the protocol unfolded non-stop in a marathon lasting 3 days and involving 5 groups of 6-7 students each, working in shifts for a total of 891 manhours of cultivation.
- Relentless manufacturing, layering, testing, playing, discussing [with readings of Cedric Price's original Fun Palace], resting and back again another loop, another group breeding new material articulation and programmatic differentiation.
- No undoing was possible, only more overlaying, incorporation, negotiation with what is already there.

## Robotic Sand forming

*Barcelona, Spain*

### WORKSHOP

*May 2012*

- Duration: four days.
- Tutors: Michael Knauss and Mirjan Ammar | Tutors at (ETH Zurich).
- The purpose of this workshop was to research the use of granular materials such as sand as a reusable molding material to fabricate unique building elements in concrete with a minimum of waste resulting from the formwork.
- The application and modeling of the sand is controlled through an industrial "Kuka" robot to guarantee sufficient precision and repeat-ability of the process.
- The four-day workshop covered basic scripting strategies in Rhino-Python and extensive tooling and prototyping using the robotic fabrication facilities at IAAC.