

AHMED HASSAB

- www.hassab.info
- ahmedhassab@aucegypt.edu
- (+2) 01000078262

ARCHITECTURAL ENGINEER, AND SPECIALIST IN COMPUTATIONAL DESIGN & DIGITAL FABRICATION.

Egyptian architectural engineer holding a Master in Architectural Engineering. With diverse experiences in research, academia, and Professional practice. My main focus is Research, as this would help me to improve my professional and academic skills. Experimenting physically the possible techniques for Digital Fabrication, machine prototyping, and developing plugins for data extraction. Acquired practical knowledge in industries like: Architecture, Naval Design, Furniture, and Jewellery. Also, has been invited as a guest speaker to a number of international meetings and conferences.

Egyptian, born in 1990 at the 1st of september.

LANGUAGES

Arabic (Mother tongue), English (Excellent), French (Basic), German (Basic).

EDUCATION AND PROFESSIONAL QUALIFICATIONS

- Phd Candidate ⁽¹⁾, Building Technology, Architectural Engineering, Cairo university, Egypt 2023.
- Msc, Architectural Studies ⁽²⁾, Architectural Engineering, Cairo university, Egypt 2018.
- B.Sc., Architectural Engineering ⁽³⁾, Cairo university, Egypt, 2012.
- General Secondary School Certificate, Saideya Military School for Boys, Egypt, 2007.
- Member, Egyptian Syndicate of Engineers, Membership Number: 2/2804990/2012/4.

⁽¹⁾ PhD GPA: 3.7/4, ⁽²⁾ Msc GPA: 3.9/4, ⁽³⁾ Graduation Project: Distinction.

CURRENT POSITIONS

- As of 2021, McNeel Barcelona, Authorized Rhino3D Trainer
- As of 2021, Africa Regional Manager, InclusiveFUTURES 2021
- As of 2020, Committee member, DigitalFUTURES.world
- As of 2018, Lecturer/Research Assistant, Ain Shams University
- As of 2018, Initiative Founder, Reparametrize.World
- As of 2017, Senior Architect, Engineering Consultants Group
- As of 2014, Lecturer/Research Assistant, The American university in Cairo

ACADEMIC EXPERIENCES

- 2021-Present, McNeel Barcelona
 - 06/2021–Present: Authorized Rhino3D Trainer
Conducting Rhino3D, Grasshopper, Digital fabrication workshops, and offering technical support. My teaching strategy is focused onto supervising the students until they have their own sustainable unique learning paths.
- 2018– Present, Ain shams University in Cairo, Cairo, Egypt
 - 09/2018–Present: Lecturer Assistant
 - Course name:
 - Graduation Project (2018 to 2020)
 - Modeling of the Built Environment ENVR - ARC316 (2019 to Present)Teaching and Supervising the students through the lab, on how to implement the technical knowledge digitally into design and fabrication. And applying this in a projects done by the students themselves and supervised by me and the team. Also, preparing the teaching materials

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for the Digital fabrication lectures.

- 2014–Present, The American University in Cairo, Cairo, Egypt
 - 09/2014–Present: Lecturer/Research Assistant
 - Course name:
 - ARCH 473/3522 (2014 to Present)

Teaching and Experimenting a computational approach for the design and fabrication of materially informed double curved façade panels with complex geometry. And as an Authorized McNeel Rhino3D trainer (McNeel Barcelona), I am Leading the lab tutorials. Also, Responsible for the Digital Fabrication of the pavilions (Scale 1:1).

- 2012–2016, Université Français d'egypte, Cairo, Egypt
 - 09/2012–04/2016: Teaching Assistant
 - Course name:
 - Architecture-Design Studio (2012 to 2013)
 - Building & Construction (2012 to 2014)
 - Rhino3D, Tspline, and Grasshopper tutorials (2012 to 2016)

Mainly I was working with: Prof. Ghada Farouk, Prof. Ghijlan, and Prof. Mahmoud ismail as a Teaching assistant helping in establishing the department by leading the design studio and preparing the teaching materials as well as the handouts. Also, Supervising the students through the lab, and teaching them how to implement the technical knowledge digitally into design and fabrication. And this applied in a projects done by the students and supervised by me and the team.

PROFESSIONAL EXPERIENCE

- 2016–Present, ECG Engineering Consultants Group S.A., Cairo, Egypt
 - 12/2017–Present: Senior Architectural Engineer/Designer

Leading a design team, and working hard to make sure achieving the golden roles (Ethics & Quality & Time) for more productive and innovative team work Delivering High Quality Designs. Duties include developing designs; preparing concept drawings; organizing and supervising the team by providing technical support and advice to develop efficient designs; verifying that all designs, drawings and documents are to current codes and standards and in accordance with ECG policies and manuals. Also responsible for a lot of an international and national mega projects, as sample the following projects:

Tag city Head Quarter, Qnb Head Quarter, Abu Dhabi port office, Pyramid Clinics, Maxim Hotel, Madinaty open street mall, Five start hotel pyramids, Nuclear planet office Building, le meridian façade renovation, suez hospital façade renovation, Qantra east hospital façade renovation, Qantra West hospital façade renovation, Ismailia hospital façade renovation, Nagaa hamady hospital façade renovation, Cairo Opera House (New Capital), New capital city of Arts, and New Alameen CityCenter.
 - 02/2016–12/2017: Junior Architectural Engineer/Designer

Architectural designer for a lot of an international projects in Dubai, Abu Dhabi, KSA, QATAR, USA, Cameroon, Kuwait, and Egypt, as sample the following projects:

Cairo Opera House (New Capital), New capital city of Arts, New Capital Museum, New Alameen

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CityCenter, New Alameen Opera House, Abu Dhabi Airport Business Park, City Stars El Kamaya, Elmajaz Hospital Dubai, Cameroon Lake View Hotel, Elmasa Park New Capital, and Nile Towers. Alexandria Sports Arena, Sultan Crystal Mall, Egyptian Parliament New Capital, Tallat Mostafa Compound New Capital.

- 2012–2013, Cube Consultants, Cairo, Egypt
 - *08/2012–11/2013: Architectural Engineer*

Architectural designer (from Concept Generation to 3D Modelling) for a lot of an international projects in South Africa, Finland, and Egypt.

INTERNATIONAL COLLABORATIONS /COMMUNITY CONTRIBUTIONS

- 2021-Present, DigitalFUTURES 2021 Events: InclusiveFUTURES
 - *05/2021–Present: Africa Regional Manager*

InclusiveFUTURES the theme to this year's DigitalFUTURES Summer Festival, an entirely free online festival of events, between 12 June- 4 July, consisting of Free Workshops, Digital Consortium of lectures, Conference, Keynote talks, and Awards.

- 2020-Present: DigitalFUTURES.World, Shanghai, China
 - *07/2020–Present: Committee Member*

DigitalFUTURES is an educational platform facilitating Workshops, Talks, Awards, Confrences, Publications. We believe that education should be understood as a universal human right, and not as the privilege of the few. And the Advisory board includes: Patrik Schumacher, Philippe Block, Mike Xie, Mark Burry, and many others.

- 2018–Present, Reparametrize.world, #Learning_For_Every_One, Cairo, Egypt
 - *01/2018–Present: initiative founder*

"Reparametrize.world". it's an NGO, which dreams to change the Arabic world for a better place by building bridges internationally between different cultures and spreading knowledge. started in 2018 "#Learning_For_Every_One" initiative reaching the students and specially in the rural areas and financially challenged countries.

TRAINING COURSES

- Summer school, tonji university, 2019
- Overcoming your fear of public speaking, linkedin, 2018
- Neil Blumenthal on Branding, linkedin, 2017
- Critical Thinking, linkedin, 2017
- Getting things done, linkedin, 2017
- Achieving your goals, linkedin, 2017
- Building resilience, linkedin, 2017
- Teacher tech tips, linkedin, 2017
- Time management tips, linkedin, 2017

Software SKILLS

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- Rhino 3D, Grasshopper 3D, Tspan, Simplify3D, Meshmixer, Slicer for fusion, NC-Studio, V-ray for Rhino3D, Autodesk 3ds Max, Revit, AutoCAD, Sketchup, Photoshop, MS Office applications.

Hardware SKILLS

- ABB Robotic Arm, CNC Machines, Laser Cutters, FDM 3D printers, BinderJetting 3D printer, workshop tools.

Research / teaching Interests

- Digital Fabrication, Computational design for complex surfaces, Materially informed double curved panels, Generative Design Methodologies, Architectural design, and Building & construction techniques.

Publications

<https://orcid.org/0000-0002-6748-9897>

- Recommendations to the university career department aiming to increase the graduates' employability rate, 2021. (Processing)
- Generative design methodology for double curved surfaces using AI, 2020.
- A computational approach for the mass customization of materially informed double curved façade panels, 2020.
- Rule-based versus intuition-based generative design: an inquiry into the digital chain concept in undergraduate architectural education, 2017.
- Mofeed and elhady, p.n.e.p.r. (تجارب نقديه في عماره المدن المصريه الجديده vol. 1). Egypt: cairo university, faculty of engineering journal, 2012.

Scholarships and Scientific Awards

- Cairo University Faculty of Engineering Graduation Prize for Distinguished Students.
- Cairo University Annual fellowships for distinguished undergraduate academic years 2007/2008, 2008/2009, 2009/2010, 2010/2011.
- 1st Prize from Cairo University in the Competition of "Using Longitudinal Recycled Structural Element in Design of an Exception Area".
- 3rd Prize from Industrial Development Group in the Competition of "Designing a Land Mark for E2 Entrance".
- Certificate of Merit from Magaz Magazine for the Competition of School of the Future.

Portfolio

https://drive.google.com/drive/folders/19bAoSYQUzeuherRtEu6iVSFs_r6FVc4?usp=sharing