



Andrew Ayman

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WORK EXPERIENCE

 **BENHA UNIVERSITY** – CAIRO, EGYPT

UNIVERSITY RESEARCH ASSISTANT – 23/10/2023 – CURRENT

- working as a research assistant who is specialized in
 1. Combustion Analysis
 2. Combustion Engines
 3. Turbomachinery
 4. Multi-phase flows
 5. Aerothermodynamics
- Helping undergraduate students in the field of mechanical engineering by assisting them in courses such as:-
 1. Engineering Thermodynamics
 2. Fluid Mechanics
 3. Heat transfer
 4. Gas Dynamics
 5. Conventional powerplants
 6. Renewable energy
 7. Theory of measurements and instrumentation
 8. Engineering Computational Methods
 9. Turbomachinery
 10. Theory of combustion
 11. Computational Fluid dynamics (CFD).

 **AMERICAN UNIVERSITY IN CAIRO- AUC** – CAIRO, EGYPT

UNIVERSITY TEACHING ASSISTANT – 01/03/2025 – 01/06/2025

worked at the mechanical engineering department labs at AUC (engines lab, fluid lab and heat transfer lab) to conduct experiments to students, assessed the lab reports of the students and ensured that they have mastered the experimental part of the mechanical power engineering courses taught at AUC .

 **TUTORUU.COM** – CAIRO, EGYPT

TUTOR – 22/09/2023 – CURRENT

- provide online tutoring services to undergraduate students
- help the undergraduate students with subjects like
 1. Thermodynamics
 2. Fluid mechanics
 3. Computational fluid dynamics (CFD)
 4. Renewable energy
 5. Conventional power plants
 6. Automatic control

 **SHUBHRA CREATORS** – CAIRO, EGYPT

INSTRUCTOR – 17/01/2023 – CURRENT

-works as an instructor of a CFD course held by a student activity called Shubhra creators where i teach the undergraduate students the basics of computational fluid dynamics CFD Science.

EDUCATION AND TRAINING

15/09/2018 – 21/06/2023 Cairo, Egypt
BSC Benha university

Website https://drive.google.com/file/d/18tQZhkeE4djwTOqxdVM9glrt6uu9lQAd/view?usp=drive_link

07/2021 – 07/2021 Washington, United States
SOLAR ENERGY (10 HOURS) EDX platform

Website <https://courses.edx.org/certificates/fdb0c31a33694f578390fbb80cf586f1>

05/2020 – 06/2020 California , United States
FUNDAMENTALS OF FLUID POWER (19 HOURS) Coursera Platform

Website <https://coursera.org/share/a783eef9a3d7c127d886ea9a1cb0a887>

02/07/2020 California, United States
WIND ENERGY Coursera

Website <https://coursera.org/share/9947d449a72a336d1f9d638e3d6d40b9>

10/04/2020 washington, United States
SIX SIGMA DEFINE AND MEASURE Edx

Website <https://courses.edx.org/certificates/54a28c9650c54ef2aebbf818d1047390>

07/08/2021 – 31/08/2021 washington, United States
DRINKING WATER TREATMENT Edx

Website <https://courses.edx.org/certificates/94da014ec41f455ebbe635f84845f565>

08/2021 – 10/2021 Cairo, Egypt
AUTOMOTIVE COURSE (160 HOURS) Salesian Institute Don Bosco

Website <https://donboscocairo.org/>

23/06/2022 – 20/07/2022 Cairo, Egypt
HVAC SYSTEM DESIGN (25 HOURS) HANDASI platform

Website <https://www.handasi.org/>

26/02/2024 Cairo, Egypt
REVIT MEP Engineers' House

Website https://engineershous.org/certificates/autodesk-revit-mep/?course_id=966&cert-nonce=bfb68e8963

07/2023 – 07/2023 San Francisco, United States
ANSYS FLUENT COURSE (PART B MODELING) (10 HOURS) Udemy Platform

Website <https://www.udemy.com/certificate/UC-585f208f-17d6-49b5-b3b9-ad6b0e4043fc/>

LANGUAGE SKILLS

Mother tongue(s): **ARABIC**

Other language(s):

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
ENGLISH	C1	C1	B2	B2	C1
GERMAN	A2	A2	A2	A2	A2

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

● **SKILLS**

CAD/MEP Programs

Solidworks software | PROFICIENCY IN AUTODESK REVIT | AutoCad 2D -3D | AutoDesk-Navisworks

CFD skills

Computational Fluid Dynamics: OpenFOAM | ANSYS workbench, ANSYS fluent

MEP Design Programs

Fire Elite | Hourly Analysis Program(carrier hap) | Duct Sizer Software for HVAC Duct Sizing

programming skills

Python Language - Basic knowledge | Matlab/Simulink | Dynamo BIM

Software skills

Microsoft Office | MINITAB software

Personal skills

Patient , excellent commication , listening skills | Well - organized and self - motivated | Hard working, arranged, responsible | Problem Solving Skills. ... | Teaching, explaining | Team-work oriented