

Andrew Ayman Fikry Fouad

Demonstrator at Shoubra faculty of engineering-Benha university

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_ Address: - Shubhra, Cairo, Egypt

_ military service: Exempted

_ Birthday date: - 15/8/2000



SUMMARY

Andrew is a curious teaching assistant with a solid technical background in mechanical engineering, who looks forward to joining a challenging successful organization, seeking new challenges which effectively utilize professional experience and in return offering the commitment to perform quality work.

EDUCATION

Bachelor of Mechanical power engineering

Shubhra faculty of engineering

GPA

📅 09/2018 - 07/2023

3.67 / 4.0

- Ranked 4th in my class.
- Graduation project: - Enhancement of the performance of a centrifugal pump (Excellent grade)
- worked as project team leader.
- The Project included an experimental and numerical study of various slot configurations' effects on the performance of the centrifugal Pump.
- Our group accomplished a 4% improvement in the pump's efficiency.

PROFESSIONAL EXPERIENCE

Trainee

North Cairo power plant

📅 09/2020 - 10/2020 📍 Cairo, Egypt

Gained valuable knowledge about combined power plants, the major components used like: - turbines, valves, pumps, boiler's auxiliaries, and the overhauling of these components.

Demonstrator

Shoubra faculty of engineering-Benha university

📅 10/2023 - present 📍 Cairo, Egypt

Helping undergraduate students in the field of mechanical engineering by assisting them in courses such as:- Engineering Thermodynamics, Fluid Mechanics, Heat transfer, Gas Dynamics, conventional powerplants, Renewable energy, theory of measurements and instrumentation, Engineering Computational Methods, Turbomachinery, Theory of combustion and Computational Fluid dynamics (CFD).

Technical SKILLS

Ansys Fluent	AutoCAD	MATLAB	BIM
Microsoft office	SolidWorks	HAP	
Elite Fire	HVAC	CFD	
Minitab	Revit-MEP	Navisworks	

LANGUAGES

Arabic

Native



English

Proficient



German

Intermediate



COURSES

Soft skills learning track (12 hours)

LinkedIn learning platform

Got introduced to the essential soft skills that are needed for career development.

Automotive course (160 hours)

Salesian Institute Don Bosco

The course focused mainly on internal combustion engines, the construction of Gasoline engines, Lubrication system, Cooling system, Suspension system and Starting system.

Introduction to Hydraulics (20 hours)

HANDASI platform

Learned the basics of hydraulic circuits and some real-world circuits.

Solar energy (10 hours)

EDX platform

The course contained an explanation of the working principle of semiconductors, solar cell operation, manufacturing of Crystalline Silicon and the significant applications of both grid-connected and stand-alone PV systems.

Fundamentals of fluid power (19 hours)

Coursera platform

Continued learning about fluid power from another perspective and knew more about hydraulic circuit's fault diagnosis.

HVAC system design (25 hours)

HANDASI platform

Mastered the fundamentals of HVAC systems and the cooling load calculations that may decrease the power consumption by 25%.

Project Management Foundations (4 hours)

LinkedIn Learning platform

Got familiar with Project definition, the basic types of project management like Waterflow & Agile project management, how to build project scope & project schedule and what are the milestones the project manager should track during the project lifecycle.

Non-Technical SKILLS

Leadership	Teaching	Hard worker
Critical thinking	Problem solving	
Fast learner	Project Management	
Teamwork skills	Self-motivated	

Ansys fluent (part B- modeling) (10 hours)

Udemy platform

Got introduced to CFD and gained knowledge about Computational methods for turbulent flows: (DNS-LES-RANS), RANS Based Turbulence Models and the use of each model, Thermal flow and solving criteria.

Firefighting system design (15 hours)

HANDASI platform

The course explained the firefighting process, the types of hazards, main kinds of firefighting systems, I also mastered the Elite fire software to do the hydraulic calculations regarding the project to optimize the head and flow rate of firefighting pumps.