

Amr Salama Abdo

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Objective

Seeking an entry level job or an internship in the engineering field.

Education

- Bachelor of Engineering, Mansoura University.
- Mechanical Power Engineering.
 - Relevant Coursework: Fluid Mechanics, Heat Transfer, Solar Energy, Wind Energy, Refrigeration and Air Conditioning.
- Graduation date: **July 2022.**
- Grade: Very Good | GPA: 3.2/4 (B+)

Graduation project (Developing a compact unit for production of pure water for medical purposes)

- Designed membrane distillation cell and analyzed the water flow using Ansys fluent.
- Developed mathematical model for heat and mass transfer across the membrane.
- Achieved financial fund (35,000 L.E) from scientific research academy (Cairo) April 2022.
- Participated in ISEIC (international science and engineering innovations competition) in air defense college (Alexandria) Mar 2022.

Experience

Mechanical Designer Trainee and Certified SolidWorks Expert from 29 July 2021.

- Certified Professional in surface, weldments, and sheet metal drafting and 2D drawings.
- Participated in designing and manufacturing mini projects including Piezo electric device, Steam generator, and sumo robot.
- Designed and assembled a successful prototype for water desalination unit using membranedistillation technology.

MEP-BIM Trainee (HVAC, Firefighting, Medical gas, Plumbing), Engineers company, Mansoura, July: October 2021.

- Achieved advanced level of using AutoCAD, REVIT, HAP, and other related software.
- Dealt with codes, standards, and protocols (ASHRAE, NFPA, IPC, SMACNA and HMI).
- Applied on the required MEP systems in hospital, residential building, commercial tower, garage, and central kitchen projects.

Training programs

Trainee, CREATIVA Innovation Hub and Entrepreneurs club, Mansoura University, October 2022.

- Working in teams to generate innovative ideas to solve problems and startup projects.
- Participated in Hult-Prize competition in Mar 2022 to develop startup ideas to bring people back to work after Covid-19 pandemic.

Intern, Siemens Energy, Egypt, El-Ain El-Sokhna, 18-22 April 2021.

- Hydraulics, Electro Hydraulics (ID: EGTA-FA-005).
- Learned and designed hydraulic circuits using Festo software
- Applied the hydraulics principles to design systems using actual hydraulic components.

Trainee, Holding company of water and wastewater, East delta, Mansoura, summer 2018.

- Overviewed the water treatment processes of seawater and wastewater.

Extracurricular Activities

Aerodynamicist and CFD Engineer, Mansoura Motorsport- Faculty of Engineering, Mansoura University, 2020-present.

- Designed a car to participate in formula student UK in 2021 and 2022 seasons (concept class).
- Designed and manufactured a car to participate in Ever Rally in Egypt in 2022 season (SharmEl-Sheikh).
- Analyzed using Ansys software the bodywork of the race car.

Volunteer, Youth engineering summit, Mansoura University, 2022.

- Participated in content creation by suggesting the type of talks and speakers.
- Searched for successful stories for graduated engineers from university.

Instructor, UUCD (university career center for career development), Mansoura University, 2022.

- Explained engineering software (Java foil and SolidWorks) as part of technical training for young engineering students (35 students).

Competitions

The 2022 International Science and Engineering Innovations Competition, ISEIC'2022, March 23-24, 2022, Air Defense College (ADC), Alexandria, Egypt.

“This competition aims to interest, excite, and enable students to understand and experience how engineering plays a part in scientific and engineering innovation.”

IMechE Formula Student, 2021 & 2022, Concept class, virtual.

“The Formula SAE series competitions challenge teams of university undergraduate and graduate students to conceive, design, fabricate, develop, and compete with small, formula-style vehicles.”

EVER Egypt: Electric Vehicle Rally, fourth season of the in Sharm El Sheikh, Egypt

“EVER is giving young engineers the opportunity to challenge and assess their technical and creative skills in designing, building and developing an urban concept of an electric vehicle.”

Hult Prize, Getting the World Back to Work, Mansoura University, Mar 2022

“The Hult Prize challenges young people around the world to solve the planet's most pressing issues through social entrepreneurship.”

Courses

- Energy Production, Distribution & Safety (University At-Buffalo) from Coursera (online platform).
- Wind Energy (Technical University of Denmark (DTU)) from Coursera (online platform).
- Water Desalination Technology from RIndustry.
- Marketing course in UCCD (University Center for Career Development).

Skills

- **Computer skills:** Good at Microsoft Office (Word, Excel, and PowerPoint).
- **Language skills:** Intermediate in English, good knowledge of French, Arabic is my native language.
- **Programming skills:** Good in programming using MATLAB and got the basics of python, C, and ladder diagram.
- **Leadership:** lead group (5) of engineering students in mini project in the university.
- **Technical reports:** studied the standards of writing engineering reports and applied the rules at different university classes.
- **Sales:** worked as a salesperson in mobile shop in summer 2015.