Holds a B. Sc. in Aeronautical & Aerospace Engineering and has about 4 years hands-on experience working as Online Freelancer.

PERSONAL DATA

Nationality	**:**	Egyptian
Birth Date	**:**	02/07/1991
Gender	**:**	Male
Residence	**:**	Shoubra, Cairo

EDUCATION

- **:** B. Sc. in Aeronautical & Aerospace Engineering, Cairo University, 2015
- **:** Postgraduate student (Master degree), Cairo University (from 2015 till now)

LANGUAGES

Arabic	**:**	Native Language
English	**:**	Fluent
French	**:**	Fair

COMPUTER SKILLS

- **:** Windows, MS Office, Internet
- **:** Matlab
- **:** Mathematica
- **:** C++
- **:** Arduino
- **:** Solid Works
- **:** AutoCAD
- **:** Nastran (FEMAP)
- **:** HTML
- **:** CSS
- **:** Javascript

TRAINING COURSES AND CERTIFICATIONS

- **:** Trainings at:
  - Petroleum Air Service (P.A.S.) (Sep. 2014).
  - Arab Organization for Industrialization (A.O.I.) (Aug. 2013).
  - Egypt Air (Maintenance & Engineering department) (Aug. 2012).

:	AutoCAD Course, Cairo University (Aug. 2011).
:	Basic Airframe & Power Plant for Engineers (Phase I), Egypt Air Training Center (Sep. 2014).
:	Basic Airframe & Power Plant for Undergraduate Engineers (Phase II), Egypt Air Training Center (Sep. 2015).
:	Courses during education:

- Aerodynamics.
- Aircraft Control.
- Aircraft Design.
- Aircraft Dynamic Structure Analysis (Vibration).
- Aircraft Maintenance.
- Aircraft Performance.
- Aircraft Propulsion.
- Aircraft Static Structure Analysis.
- Autopilot.
- Compressors & Turbines Design (Turbomachinery).
- Computitional Fluid Dynamics (C.F.D.).
- Digital & Analog Electronic Circuits design.
- Digital Signal Control.
- Finite Element Analysis (F.E.A.).
- Fluid Dynamics.
- Internal Combustion Engine (I.C.E.).
- Low & High Speed Aerodynamics.
- Mathematics.
- Programmable Logic Control (PLC).
- Finite Element Analysis (FEA).
- Programmable Logic Controller Design (PLC).
- Pneumatic & Hydraulic Control Systems Design.
- Advanced Computational Fluid Dynamics (CFD).
- Numerical Techniques.
- Computation Science & Engineering.
- Technical Language.

CHRONOLOGICAL EXPERIENCE RECORD

Dates	:	From 2013 till now
Job title	:	Online Freelancer
Job Description	:	

- Turbocharger design.
- Aircraft preliminary design.
- Fluid tank control.
- Rocket propulsive system design.
- Yoyo design.
- VTOL control.
- Aircraft altitude control.
- Temperature distribution on a plate due to the movement of a fluid on its surface.
- Image compression using SVD.
- Airflow on an airfoil simulation code.
- Wing structure analysis.
- Pneumatic and hydraulic circuit design for a plastic molding machine.

- Flow simulation for fuel injection system code (Using Vorticity - Stream method).
- 2D grid generation around an airfoil (PDE grid generation).
- 2D Finite Element code to calculate a cantilever displacement.