



Marwan Mohamed Refaei

**Aerospace and Aeronautical
engineer**

STUDENT ACTIVITIES

- **4P Team_Helwan University**
Fundraiser. (2015-2016)
- **Enjad _ Helwan University**
Fundraiser. (2016-2017)
- **Resala Charity Organization**
Fundraiser & Math teacher for
Resala's students.
(2016-2017)
- **UDC Team_Cairo University**
Team member in UDC lap
after earning the 2nd place in
UDC competition.
With the UDC lap I have
participated in designing and
manufacturing many small
UAV planes. (2017-2018)
- **SSTL Team_Cairo University**
Team member in SSTL lap at
aerospace department.
With the SSTL lap I have
participated in designing and
manufacturing a small scale
space rover & a small cube
satellite. (2018-2019)

EDUCATION

- **2015 - 2016**
**Faculty of engineering Mataria
branch, Helwan University**
I had a high grade (91%) and was the 2nd in
the ranking that year ,so i had the chance to
transfer to the faculty of engineering,**Cairo
University (Aerospace department)**
- **2016 - 2020**
**Faculty of engineering Cairo
University(Aerospace Department)**
- **CUMULATIVE
GRADE**
**Very good (80.25%)
The fifth in the ranking.**
- **THE POSITION
ON
RECRUITMENT**
RESERVE OFFICER, FIRST GROUP
The beginning of service in the army on
7/11/2020

CERTIFICATES

- **2016**
**Achieved the 2nd place in unmanned Aerial
systems Development Center(UDC) annually
competition.**
The goal of this competition is to design,
manufacturing and flying a small UAV plane
made of blue foam and the team which
achieve the least time with the highest payload
in two full cycles will win.
Achieved the 2nd place
- **2017**
**Achieved the 1st place in the (Technical
Center for Career Development)TCCD's
competition at Faculty of Engineering, Cairo
University**
The core of this competition is that there are
more than 100 teams from different
engineering departments including; Aerospace,
Biomedical, Computer, Electrical power and
Mechanical Departments with different topics
are presenting their work in different real-life
applications based on mathematical concepts
through oral and poster sessions.
We have chosen to talk about "The Traveling
Salesman Problem" through our scientific
reports, posters as well as simulation results
we achieved the 1st place.
- **2020**
**Holding the associate degree in solidworks
software after Passing the Certified Solid
work Associate(CSWA) Exam.**
I have gained a great experience in Solid work
software which helped me to enter the
community of the solid work professionals.
Credential ID : C_SPVCK6T2YZ

CONTACT

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GRADUATION PROJECT

● 2020

DESIGN AND MANUFACTURING A COMPOSITE FLYING WING PLANE WITH CARBON FIBER (EXCELLENT GRADE)

In this project all my tasks were about working at Ansys workbench, solidworks and the manufacturing process.

The software tasks were in two ways :- Static structural and ACP(pre) for structure Fluent for (CFD) and for Fluid Structure interaction in one way.

Making the solid work designs and import all these designs to Ansys for initializing all the required structural and aerodynamic analysis and enter the loop of modification in the design.

After finishing all the design works I participated in the manufacturing process with my team.

SOFTWARE SKILLS

SOLIDWORKS	<div><div></div></div>
ANSYS	<div><div></div></div>
CAESAR II (self study)	<div><div></div></div>
FEMAP	<div><div></div></div>
CATIA	<div><div></div></div>
MATLAB	<div><div></div></div>
FLUID_SIM	<div><div></div></div>
ARDUINO	<div><div></div></div>

SUMMER TRAINING

- EGYPT AIR (1 month - 2017)
- Petroleum Air Services (PAS) (1 month - 2018)

COURSE

- From 28/7/2019 To 18/9/2019 & From 27/9/2020 To 4/11/2020 **BASIC INDOCTRINATION UNDERGRADUATE AERONAUTICAL ENGINEERS PHASE I & II EGYPT AIR**
Had 12 week sessions about all the aircraft systems and studied the details of how the turbofan engines work and how to troubleshoot any failure in the engine systems.