

# Curriculum Vitae

## 1-Basic Personal Data:

<b>Family Name</b>	SULTAN	
<b>First Name</b>	RASHED	
<b>Middle Names</b>	A. ABDELSALAM	
<b>Nationality</b>	LIBYAN	
<b>Place of Birth</b>	BENGHAZI-LIBYA	
<b>Date of Birth</b>	4 JANUARY 1967	
<b>Current Address</b>	12 AL SHAHID AHMED ZAKI, 6RD FLR, APT 64, HELIOPOLIS, CAIRO, EGYPT	
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	Cell	00201142241313
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## 2-Summary of Qualifications:

- Broad experience in aviation safety and maintenance.
- Excellent knowledge of elasticity, experimental & theoretical stress for beams and plates.
- Broad knowledge of mechanical testing of materials according to ASTM standards.
- Project skills gained through the courses.
- Excellent practice in non-destructive testing.
- Good practice of hand lay-up composite material manufacturing and evaluating the mechanical properties and stress analysis.
- Good ability to follow the problem and solve.
- Field problems investigation studies.
- Proven communication and problem solving skills.
- Ability to work well under pressure.
- Reliable, flexible and willing to work in remote locations.

## 3-Academic/Professional qualifications:

Degree	Subject of Degree	Language	University	From / To	Awarded in
<b>B.Sc.</b>	Aeronautical Engineering	English	Engineering Academy LIBYA	1984-1989	Sep 1989
<b>Specialized Master.</b>	Aviation safety & aircraft airworthiness	English	ISAE & ENAC-FRANCE	2008-2009	Sep 2009
	Thesis Title	"Non-destructive characterization by radiographic testing and ultrasonic testing in carbon epoxy laminate with ply drop".			
<b>PhD.</b>	Mechanical Engineering	English	Military Technical College- Cairo	2011-2014	2014

Thesis Title

“Non-Destructive Testing of Delaminated Cross Ply Composite Materials”.

**4-Professional Experience**

Dates (From / To)	Job	Employer
Sep 1989 – Sept 2008	Consultant Engineer in maintenance & quality organisation	Engineering Mechanics Department, Benghazi Air Port-LIBYA
Sept 2009 – Jan 2011	Senior Consultant Engineer in maintenance & quality organization	Engineering Mechanics Department, Benghazi Air Port-LIBYA

**5-Instructional Capabilities:**

1. Elasticity
2. Experimental stress analysis
3. Plates and beams
4. Mechanics of composite materials
5. Experimental vibration test of composite laminate
6. Aircraft Equipments and Systems
7. Non-Destructive testing

**6- Computer Proficiency:**

- 1- ICDL
- 2- Autocad 2-D.
- 3- ANSYS

**7- The following modules were passed in specialized master degree**

No.	Module Titel
1	Flight envelopes
2	Structural operating limits
3	A/C architecture & load calculation
4	Propulsion
5	Avionic part 1
6	Avionic part 2
7	Aircraft system
8	Qualification test for on-board system
9	Certification of airliner
10	Safety of complex system
11	On-board soft wares
12	Safety and human factors
13	Approval and quality cocepts
14	Operating procedures
15	Maintenance procedures
16	Continuing airworthiness

**8- The following courses were passed in PhD**

No.	Course Titel
1	Experimental stress analysis
2	Plates and shells
3	Composite materials
4	Elasticity

### **9- The following special courses were accomplished after PhD**

1. Five general methods of non-destructive testing according to ASNT level 1 & 2 system [ Welding technology- Visual inspection- Liquid penetrant test- Ultrasonic test- Radiography test- Magnetic particles test] in [AZ for Petroleum & Engineering Services Company-CAIRO](#).
2. Autocad 2-D course in [Cad Master training and soltion company-CAIRO](#).
3. ICDL course in [YAT learning centers company-CAIRO](#)

### **10- Publications:**

- [1] R. Sultan., S. Guirguis., M. Younes., E. El-Soaly., “Delamination detection of composite laminates using natural frequency vibration method”, Proceedings of the 15<sup>th</sup> Int. AMME Conference, 2012.
- [2] R. Sultan., S. Guirguis., M. Younes., E. El-Soaly., “Active infrared thermography technique for the non destructive testing of composite material”, International journal of mechanical engineering and robotics research”, Vol. 1, No. 3, 2012.
- [3] R. Sultan., S. Guirguis., M. Younes., E. El-Soaly., “Delamination identification on composite material by free vibration test”, International journal of mechanical engineering and robotics research”, Vol. 1, No. 3, 2012.
- [4] R. Sultan., S. Guirguis., M. Younes., E. El-Soaly., “Delamination detection of composite laminates using natural frequency vibration method”, International journal of mechanical engineering and robotics research”, Vol. 1, No. 2, 2012.
- [5] R. Sultan., S. Guirguis., M. Younes., E. El-Soaly., “Delamination detection by thermography”, International journal of engineering research and applications, Vol. 3, Issue 1, p 279-288, 2013.
- [6] R. Sultan., S. Guirguis., M. Younes., E. El-Soaly., “Ultrasonic testing of carbon epoxy laminate ply drop”, International journal of engineering & technology IJET-IJENS, Vol.13, No.01, 2013.
- [7] R. Sultan., S. Guirguis., M. Younes., E. El-Soaly., “Effect of the thickness-wise location delamination on natural frequency for laminate composite”, International journal of applied engineering research, Vol 8, No. 2, p 157-170, 2013.

**INTERESTS:** Swimming and camping.

**REFERENCES:** To be furnished upon request