Abdalmaged Aboulgasim

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ABOUT ME

Aeronautical Engineer/Aircraft Structures Engineer

WORK EXPERIENCE

Structural Design Engineer
Safat Aviation Complex [31/01/2015 – Current]

Address: Inqaz street, 11111 khartoum (Sudan) - www.arc.sd
City: Khartoum
Country: Sudan

- ○ Worked as structural design engineer with following responsibilities:
1. 1.head of aircrafts structures unit
2. Determination of the structural design requirements
3. Development of the structural layout
4. Perform preliminary sizing and stress analysis of structures (composite or metalic hand calculation)
5. development of 3D CAD models
6. development of 2D drawings
7. Finite elements modeling ,validation and analysis of structures (composite and metallic)
8. Participating in Projects Planning

EDUCATION AND TRAINING

Master in Mechanics of Materials and Structures
University of Girona [22/09/2019 – 16/09/2020]

Address: 17003 Girona (Spain)
www.udg.edu
Field(s) of study: Engineering, manufacturing and construction
Final grade : 8.14/10
Number of credits: 60
Thesis: Numerical Simulation of Fatigue Crack Growth of Wing-Fuselage Lug Joint

The master focuses in the development of the knowledge and skills in the field of the mechanical behavior of the materials and structures

Primary Structure Development
Boggi [19/02/2018 – 31/03/2018]

Address: di, Via Paolo Borsellino, 1, 42019 Arceto RE, Reggio emillia (Italy)
www.boggiaeronautics.eu

Experimental and Computational Analysis of Composite Structures
UPM university (Malaysian society of structural health monetoring system and aerospace manufacturin [22/11/2015 – 30/11/2015]

Address: 43400 Seri Kembangan, Selangor, Malaysia, Kualalumpur (Malaysia)

www.upm.edu.my

Advanced Design and Analysis of Aerospace Structures
University Technology Malaysia [20/10/2015 – 16/12/2015]

Address: Sultan Ibrahim Chancellery Building, Jalan Iman, 81310 Skudai, Johor, Malaysia, Johor bahru (Malaysia)

www.utm.my

Bachelor of Engineering - Second Class Division One (honors)
Sudan University of Science and Technology [31/08/2007 – 30/09/2012]

Address: 61 Street, 11111 Khartoum (Sudan)

www.sustech.edu

Field(s) of study: Aeronautical engineering

Final grade : 2.84/4

Thesis: Control surfaces structural analysis

LANGUAGE SKILLS

Mother tongue(s): **Arabic**

Other language(s):

English

LISTENING B2 **READING** B1 **WRITING** C1

SPOKEN INTERACTION C1

ORGANISATIONAL SKILLS

Organisational skills

Leadership skills

Good organizational skills gained through my work as head of department and participating in projects planning

Good team leading skills gained through my work as a team leader for projects

COMMUNICATION AND INTERPERSONAL SKILLS

Communication and interpersonal skills

good communication skills gained through my work as teaching assistant in the Sudan university of science and technology and structural design engineer (head of department) where i discuss with the other design groups the technical issues

JOB-RELATED SKILLS

Job-related skills

De1. **Familiar with aircraft structure design books such as niu and bruhn**

2.Familiar with USAR, CS-23 Amendment 4,5 (subpart C and D)

3.programming skills using MATLAB:

  ◦ used matlab to develop balance and maneuvers loads cases code of a light aircraft

- used matlab to develop Structural optimization code based on genetic algorithm

4.Experience with CATIA V5 (part design,generative shape design and drafting)

- development of the preliminary structural layout of (wing, fuselage OF MALE UAV) using Generative shape design
- development of solid model of MALE UAV wing and fuselage structure

5. **fluent with FE analysis using MSC PATRAN/NASTRAN :**

- performed FE modeling, validation and analysis (SOL101) for a wing of a composite UAV wing
- performed FE modeling, validation and analysis (SOL101) for metalic wing
- Familiar with SOL 200,SOL103, SOL 105

6.Ansys workbench:

- Static analysis of wind tunnel six components internal balance
- Static, buckling and post buckling of engine stand
- familiar with modal, harmonic random viberation analysis modules
- Fatigue analysis

7.Abaqus:

used XFEM module in abaqus to simulate fatigue crack growth in light aircraft wing - fuselage lug joint (master thesis)