



University of Tripoli, P.O. Box 13152 Tripoli (Libya)

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Skype Abdurahman

Nationality Libyan

POSITION

Professor at Mechanical Engineering Dep.; University of Tripoli
Director of Entrepreneurship and Innovation Centre

WORK EXPERIENCE

Feb 2018–July 2020

**Project Manager " NetWork for the modernisation of the Higher Education Sector in Libya.) "WHEEL""
Erasmus+ for HE KA2,**

Contribute to a vision of a Libyan Higher Education system that can successfully meet the many social, economic and cultural challenges via analysis, capacity building actions, institutional development and strategic planning of the Libyan context.

03 Dec 2018–06 Dec 2018

Workshop Coordinator "University of Tripoli"

Cologne (Germany)

workshop funded by the German Academic Exchange Service (DAAD), workshop is to deepen the co-operation between university of Tripoli and University of Cologne (Germany), on fact-finding in the field of Didactic HE.

13 Nov 2018–16 Nov 2018

Workshop Coordinator "University of Tripoli"

Tunis (Tunisia)

workshop funded by the German Academic Exchange Service (DAAD), workshop is to deepen the co-operation between university of Tripoli and University of Giessen (Germany) workshop on fact-finding in the field of Human Geography with the co-operation to be extend with a specialization in Population and Migration Geography

Aug 2018–present

Director of Entrepreneurship & Innovation Centre, EIC

The EIC established at the beginning of 2018, the aims are to disseminate the culture of entrepreneurship among students and to help them in creation their start-up projects, different activities have been performed such as training courses of entrepreneurship and contests; we are planning to cooperate with international institution to enhance and build the capability of our youths.

13 Aug 2018–16 Aug 2018

Workshop Coordinator "University of Tripoli"

Germany (Cologne)

workshop funded by the German Academic Exchange Service (DAAD), workshop is to deepen the co-operation between university of Tripoli and TH Koln (Germany) in the field of mobile construction machinery and to further develop a dates harvester machine.

5 Feb 2018–7 Feb 2018	Workshop Coordinator "University of Tripoli" Tunis (Tunisia) Workshop with CIEDEL (France) on Capacity-building of Libyan local authorities "Municipalities Public Administration", in the framework of the Nicosia initiative for Libyan local authorities adopted by the CoR ARLEMPenary in January 2016, Funded by EU.
5 Dec 2017–7 Dec 2017	Workshop Coordinator "University of Tripoli" Hammamet (Tunisia) Workshop funded by the German Academic Exchange Service (DAAD), Workshop with TH Koln (Germany) on fact-finding in the field of engineering with focus on mobile work machines.
16 Oct 2017–19 Oct 2017	Training (Extensive course) Tunis (Tunisia) Networking and Marketing Establishing EIC at university of Tripoli, In the frame work of MoU between Expertise France and University of Tripoli and Libyan Enterprise SME's.
19 Sep 2017–21 Sep 2017	Workshop Coordinator "University of Tripoli" Djerba (Tunisia) Workshop with Leipzig University (Germany) on curricula development in the field of design (media design, product design and branding) funded By DAAD.
24 Apr 2017–29 Apr 2017	Academic Visitor Riga Technical University, Riga (Latvia) Attending PhD student seminar at Mechanical Engineering Department. In addition, presenting seminar to mechanical Eng. Depp. Academic staff members. Also, teaching two lectures to second year and last year students. Meeting with Deputy of foreigner affair of RTU and the director of international relations discussing future collaboration between UoT and RTU
Nov 2016–Nov 2018	Committee member of co-supervision of higher education programs University of Tripoli, Tripoli (Libya) Establishing a system of legislation to control the procedure and the rules of joint research and joint higher education programmes -international co-operation -networking and student mobility.
Apr 2016–Apr.2018	Coordinator of Expertise France program ICO - University of Tripoli - Contact person of Expertise France project regarding entrepreneurship program at university of Tripoli. - Committee Director of establishing Entrepreneurship and Innovation Centre, "EIC" at University of Tripoli.
Oct 2012–Mar 2018	Member of International Cooperation Office -ICO Member of ICO, engaged with administrative of international relations, adapting to multicultural environment with capacity to communicate and work in a team spirit - involved in national and international projects dealing with implementing bilateral agreements (KA1 & KA2 of Erasmus+ projects), scholarships, workshops, video conference. -engaged in developing the structure organization of ICO.
Nov 2011–Mar 2019	Head of Department of Cultural Relations Faculty of Engineering, Tripoli (Libya) Dozens of different activities have been arranged such as technical workshops, seminars, culture activities, celebration of graduation day, open day. The last two huge activities were arranged on June the 4th 2016 the graduation day, where we targeted four academic years from spring 2011 to spring 2015 the number of graduated students reached 3300. In addition, on March the 24th 2017- graduation day for the academic year 2015/2016 the number of students reached 700.

Curriculum vitae

Full Professor

University of Tripoli, Tripoli (Libya)

Full time tutor (Professor), Mechanical and industrial engineering department, faculty of Engineering -

Instructed courses: - Structural Optimization, Design I & II, Stress analysis I & II, Composite Materials & Ceramics, Project Planning, Mechanical Drawing, Technical Writing.

Sep 2009–Sep 2017

Associate Professor

University of Tripoli, Tripoli (Libya)

Full time tutor (Associate professor), Mechanical and industrial engineering department, faculty of

Engineering - Instructed courses: - Structural Optimization, Design I & II, Stress analysis I & II, Composite Materials & Ceramics, Project Planning, Mechanical Drawing, Technical Writing.

May 1990–Sep 2009

Mechanical engineer

Research and Development Centre, RDC, Tripoli (Libya)

First mechanical engineer - Group's leader of Stress analysis group (Feb. 1993 – Jan. 1998)

Second expert Mechanical engineer - Group's leader of Stress analysis group - (July 1998 - Feb. 2002)

First expert Mechanical engineer - Vice-Manager of design department (Feb. 2005 – Sep 2009)

- Member of delegating and designing committee for constructing Central Laboratory for real structure testing at Tripoli. 1998- Dec. 2001

EDUCATION AND TRAINING

4 Dec 2016

Training (Extensive course)

DAAD, Tunis (Tunisia)

Managing conflicts using constructive negotiation techniques

The knowledge, skills and abilities to deal with conflicts in a constructive way for cooperative long-term relationships based on the HARVARD method - coping styles - conflict escalation dynamics and potential interventions for conflict management - introduction to a variety of constructive negotiation techniques - communication skills - approaches of non-violent - communication and mediation.

3 Oct 2016–14 Oct 2016

Training (Extensive Course)

UNIMID (ENROL Project), Sousse (Tunisia)

Empowering and Networking the International Relationships Offices

Management, strategy and leadership - Organisational structure and main management areas - Information system and external communication - Human resources management and University management - International and EU Programs - Introduction to project design methodologies - Proposal writing - Practical work

30 Jun 2016

Training - eLearning (Extensive course)

International Trade Centre

Economic Integration, Diversification and Sustainable Employment

Introduction to how to be entrepreneur - supporting youth employment and entrepreneurship - aspiring entrepreneurs - management entrepreneurship and accounting - support services to SMEs and entrepreneurs - institutional and legislative framework for SME development

Jan 1998–Jul 1998

Training - (Comprehensive course)

Zarcova institute, Belgrade (Serbia)

Experimental stress analysis

Real structure testing, set strain gauges, transducers, load cells, data acquisition system.

Feb 2002–Nov 2005

PhD

Beijing University of Aeronautics and Astronautics, BUAA, Beijing (China)

<http://ev.buaa.edu.cn/>

Mechanical School

Title: Integrated Multipoint approximation for Structural Topology and Size Optimization and some Application

Sep 1991–Dec 1992

MSc

University of Strathclyde, Glasgow (United Kingdom)
www.strath.ac.uk
Mechanical School
Title: Design and Limit Load Analysis

Sep 1990–Jul 1991

PGD

Birmingham Polytechnic, Birmingham (United Kingdom)
www.bcu.ac.uk/
Mechanical School
Main subjects: Computing & programming - Operation Research - Management - Design Methods - Stress Analysis - Technical & Professional writing

Mar 1984–Jul 1989

BSc

University of Tripoli, Tripoli (Libya)
<http://uot.edu.ly>
Faculty of Engineering; Mechanical and Industrial Engineering Department

PERSONAL SKILLS

Mother tongue(s)

Arabic

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C1	C1	C1	C1	C1
Chinese	A1		A1	A1	

Levels: A1 and A2: Basic user - B1 and B2: Independent user - C1 and C2: Proficient user
Common European Framework of Reference for Languages

Communication skills

- Good communication skills gained from my career as manager of culture relations department and as coordinator of ICO - Skills of Team project management, High sense of responsibility and problem solving, knowledge of the administrative procedures and organizing activities. Also skills of Cooperation development dealing with internationalization.

Organisational/ managerial skills

Leadership - from career as department Manager (e.g. June 2016 managing and organizing large graduation day for faculty of engineering, targeting 3300 graduated students).
- Good Organisational skills (e.g. 31 December 2016 organizing workshop for assessment those participated on on-line training related to expertise France project).
- Good networking- leader of establishing Entrepreneurship & Innovation Centre, EIC; inside the campus of University of Tripoli.

Job-related skills

Quality control process, Systematic procedures, documentations, dissemination, advertising and sense of responsibility. Professional and excellent knowledge of operating the PC and office tools (MS Office package and Adobe and 365 office package) and other professional programs of Finite element, NASTRAN, ANSYS and PAFEC, Fortran, Auto Cad, data acquisition system.

Digital skills

SELF-ASSESSMENT				
Information processing	Communication	Content creation	Safety	Problem solving
Proficient user	Proficient user	Independent user	Independent user	Proficient user

Digital skills - Self-assessment grid

ADDITIONAL INFORMATION

Publications

- 1- Abdurahman M. Hassen and H. Huang "Study on accuracy of the combined multi-point approximation methods used in structural topology optimization" CJK-OSM-3 Joint Symposium on Optimization of Structural and Mechanical Systems, October 30 – November 2, 2004, Kanazawa, Japan
- 2- H. Huang, Abdurahman M. Hassen, Huadong Lian and Yongfang Dong "Truss Topology optimization By using Two Level Multi-point Approximation & GA" CJK-OSM-3 Joint Symposium on Optimization of Structural and Mechanical Systems, October 30 – November 2, 2004, Kanazawa, Japan
- 3- Hai Huang Kuicheng Xian and Abdurahman M. Hassen "Truss Topology Optimization by Using Combined Multipoint Approximation & GA" CJK-OSM-4 Joint Symposium on Optimization of Structural and Mechanical Systems, November 6-9, 2006, Kunming China
- 4- Abdurahman M. Hassen, Hai Huang "Integrated multi-point approximation (IMA) for structural topology optimization"; Proceeding of ICASAT2007; April 23-25, 2007, Tripoli
- 5- Abdurahman M. Hassen, Neffati Mansour, Abdulaziz Y. Hassan "Application of Numerical Optimization Techniques to shaft design"; 2012HKICEAS, Hong Kong International Conference on Engineering and Applied Science, Hong Kong, 14-16 December, 2012
- 6- Abdurahman Hassen, Hai Huang "Topology optimization Using Integrated Multi-Point Approximation with application"; International Journal of Advancements in Mechanical and Aeronautical Engineering – IJAMAE; Volume 2: Issue 1 [ISSN: 2372-4153], Publication Date: 30 April, 2015
- 7- Mohammed Hjadi, Abdurahman Hassen, Hasan Nagiar and Ezedine Allaboudi "Exact Finite Element for Torsional Vibration of Shafts under Harmonic Torsion"; International Journal of Engineering Research & Technology (IJERT), ISSN: 2278-0181, <http://www.ijert.org>, IJERTV5IS090300, Vol. 5 Issue 09, September-2016
- 8- Abdurahman Hassen, Mohammed A. Hjadi, Hai Huang "Structural Topology Optimization using Integrated Multi-Point Approximation"; International Journal of Engineering Research & Technology (IJERT); Vol. 5 Issue 11, November-2016, [ISSN: 2278-0181], <http://www.ijert.org>, IJERTV5IS110017
- 9- Abdurahman Hassen, Mohammed A. Hjadi, Hai Huang "Modified Integrated Multi-Point Approximation and GA Used In Truss Topology Optimization"; Journal of Multidisciplinary Engineering Science and Technology (JMEST); Vol. 4 Issue 6, June - 2017, ISSN: 2458-9403; www.jmest.org, JMESTN42352235

Postgraduate Supervision or examiner

- Supervisor, master degree, University of Tripoli "Design Optimization of rotating shafts using approximation techniques" 2012
- External examiner, master degree, Academy of graduate studies, Tripoli-Libya "Experimental Study on end-milling of steel AISI1060 for optimum roughness using Taguchi optimization methodology" 2007
- Internal examiner, master degree, University of Tripoli "Analysis of box beam by using Numerical Method depending on integrated matrix" 2012
- Internal examiner, master degree, University of Tripoli "Closure ends of Pressure vessel shells using finite element analysis" 2012
- Supervisor, master degree, University of Tripoli "Topology Optimization by material distribution technique" 2016
- Supervisor, master degree, University of Tripoli "Automated design using Topology Optimization technique" 2016