

Personal & Vocational C. V.

Name: Luay M. Ali Ismaeel.

Gender: Male.

Birth date: Najaf province - Iraq/ 5th- July-1963.

Marital status: married.

Nationality: Iraqi.

Languages: Arabic, English.

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Academic degrees:

- 1- BSc. In mech. Engineering-1986, College of Engineering, Mosul University.
- 2- Msc. in Applied Mechanics-2007, College of Engineering, University of Babylon.

Practical experience:

- 1- Mechanical maintenance engineer for CNC turning machines (Ministry of Industry and Minerals- Iskandaryia) during 1986-1990.
- 2- English language translator 1990-1992-General Directorate of Technical Equipments, Baghdad.
- 3- Erection engineer 1993-1994 - New Tires Project – Najaf site.
- 4- Lecturer in Manufacturing Processes 1994- 2007, Najaf Technical Institute
- 5- Mechanical spare parts Manufacturer, 1994- 2003, Najaf Technical Institute Workshops.
- 6- Manager of mechanical workshops in Najaf technical Institute, 1998-2000.
- 7- Manager of computer center in Najaf technical Institute, during 2007-2009.
- 8- Head of Dept. Of Machineries & Equipments 2009-2010.
- 9- Head of Dept. Of Mechanics 2010-2011.
- 10- Head of Dept. Of Machineries & Equipments 2011-2014.
- 11- Head of Dept. Of Mechanics 2015 -

Software and Packages applied :

- 1- Office software.

2- Auto Cad.

3- Ansys

4- Matlab

Published Papers:

1. "Optimization of the Aspect Ratio of the Elliptical Cross-section of Fiber Reinforced Composite Beam", 1st Scientific Conference of Najaf Tech. College, 2008, Najaf, Iraq.
2. "Free Vibration Analysis and Aspect Ratio Optimization of An Elliptical Cross-sectional of Fiber Reinforced Composite Beam", 1st World Scientific Conference of Najaf Tech. College, 2010, Najaf, Iraq.
3. "Effect of Modular Ratio (G_f/G_m) and Transverse shear Modulus on the Twisting Strength of a Fiber-Reinforced Composite Rod." Accepted for publishing at the Iraqi Journal for Mechanical & Materials Engineering, 2011, University of Babylon, Hilla, Iraq.
4. "Using of Unit cell Method in Micromechanical Stress Analysis of A Built-up FRC Beam", 1st Regional Scientific Conference of College of Engineering, 2008, Al-Nahrain Univ. Baghdad, Iraq.
5. "The Effect of Shear Moduli and Modular Ratio G_f/G_m on the Natural Frequency of A Hybrid Composite Rod Under Torsional Excitation". Iraqi Journal for Mechanical & Materials Engineering, 2013, University of Babylon, The second international scientific conference of the college of materials engineering, Hilla, Iraq.
6. "Optimization and Static Stress Analysis of Hybrid Fiber Reinforced Composite Leaf Spring" Advances in Materials Science and Engineering, <http://www.hindawi.com/journals/amse/aa/374609/>.
7. Effect of Elastic Moduli (E_1 and E_2) of a Hybrid Composite Rod and its Constituents on Free Torsional Natural Frequency. Accepted for publication in Al-Qadisiya Journal for Engineering Sciences, Jun-2016.
8. Effect of stacking sequence and curing temperature on Natural frequency of a hybrid fiber-reinforced composite laminate. International Journal of Scientific & Engineering Research, volume 8, issue 5, may-2017 1, ISSN 2229-5518.
9. "optimization of materials to improve the performance heat transfer in Air condition condenser", Journal of Mechanical Engineering Research and Developments, ISSN: 1024-1752 CODEN: JERDFO Vol. 43, No. 2, pp. 343-348 Published Year 2020

Patents Gained:

1. Patent No. 5148, international classification CODE. F16F1/22. Entitled as "A New Technique for manufacturing Automobile hybrid fiber-reinforced composite leaf spring", issued in Iraq by the Central Organization for Standardization and Quality Control, 27th - Dec. – 2017.
2. Patent No. 5826, international classification CODE. G01N3/00. Entitled as "New Technique for Using the Universal Testing in Advanced Bridges Testing ", issued in Iraq by the Central Organization for Standardization and Quality Control, 3rd – Jul. – 2019.