DR. ADEL SALEM

1. EDUCATION

PhD. Mechanical Engineering **Dec. 2016**
University of Dayton
Dissertation Title: Weight and Cost Multi-Objective Optimization of Hybrid Composite Sandwich Structures.

M.Sc. Industrial and Production Engineering **Apr. 2008**
Academy of Postgraduate Studies, Tripoli, Libya
Thesis Title: A Study of the Surface Characteristics of Die Steel Due to Variation of Electrical Discharge Machining (EDM) Parameters.

B.S. Mechanical Engineering **July. 1994**
Bright Star University of Technology, Albraga, Libya
Project Title: Re-design of Conveyor Belts for Animal Feed plant.

2. ACADEMIC EXPERIENCE

Assistant Professor **2025-Present**
Department of Engineering and Technology, Central State University

- Thermodynamics and Heat Transfer
- Strength of Materials
- Material Science and Processes
- Manufacturing processes
- Machine and Tool Desigen
- Plastics Technology

Assistant Professor **2022-2023**
Mechanical Engineering Department, Sabratha University

- Workshop Technology
- Engineering Metallurgy

Teaching Assistant **2014-2016**
Civil Engineering Department, University of Dayton

- Statics and Strength of Materials

Laboratory technician **2004-2009**
Mechanical Engineering Department, Al Zawiya University

- Managed mechanical engineering laboratories and supervised undergraduate laboratory instruction in Strength of Materials, Fluid Mechanics, and Heat Transfer.

Adjunct Lecturer **2008-2009**
Mechanical Engineering Department, Al Zawiya University

- Properties of Materials

Teacher **1994-1996**
Intermediate Centre for Mechanical Professions Studies. Sabratha, Libya

- Workshop technology

3. NON-ACADEMIC EXPERIENCE

Supervising Engineer **1998-2003**

- Ministry of Municipality, Sabratha City, Libya

Supervising Engineer **1996-1997**

- Fish Canning Factory, Sabratha City, Libya

4. PUBLICATIONS

Journal Publications

- A.I. Salem and S. L. Donaldson. 2017; Weight and Cost Multi-Objective Optimization of Hybrid Composite Sandwich Structure; International Journal of Computational Methods and Experimental Measurements, Vol. 5, No. 2 (2017) 200–210

Conference Publications

- A.I. Salem and S. L. Donaldson. 201.; Weight and Cost Multi-Objective Optimization of Hybrid Composite Sandwich Structures; accepted for presentation at the International Conference on High Performance and Optimum Design of Structures and Materials HPSM/OPTI ,2016
- A.I. Salem and S. L. Donaldson.2015. “Fixed Stiffness Weight and Cost Tradeoff of Hybrid Sandwich Structures” presented at the 30 th American Society for Composites Conference Sep. 28 -30, 2015
- M. A. Majid & A.I. Salem.2014. “Effect of Electric Discharge Machining of Die Steel DIN 1.2714 and DIN 1.2343 on Surface Characteristics and Performance Measures”. International Conference on High Performance and Optimum Design of Structures and Materials HPSM/OPTI, 2014

5. PROFESSIONAL MEMBERSHIPS

- **American Society for Composites** **2015-Present**

6. TECHNICAL SKILLS

- **Engineering:** Abaqus 6.12, Matlab, LabView,Helius Composite Pro, AutoCAD
- **General:** Microsoft Windows, Advance Microsoft Office Suite