

## C. V.

### **Personal Information:**

**Name:** Elhadi Badawi Mahgoub Barakat

**Place and Date of Birth:** kosti l Sudan 5<sup>th</sup> of February 1967

**Nationality :** Sudanese

**Marital Status:** Married having four kids

**Gender:** Male

**Contact. :** e-mail: [elhadimahgoub1@gmail.com](mailto:elhadimahgoub1@gmail.com)

**Languages:** Arabic : Mother Tongue, English : V. Good, Pahasa Malay : Good

### **Academic Qualifications:**

Degree	Discipline	Institution	year
PhD	Mechanical Engineering (Ref. & A/C)	Universiti Teknologi Malaysia	2007
Master	Mechanical Engineering (Ref. & A/C)	Universiti Teknologi Malaysia	1999
B.Sc.	Mechanical Engineering (Production) First class	Sudan University of Science & Technology	1993

### **Working Experience:**

Institution	Rank & Title	Dates Held	Full Time/ Part Time
University of El Imam El Mahdi	Teaching Assistant	1/2/1995-21/8/1998	Full Time
University of El Imam El Mahdi	Lecturer	21/8/1998-18/8/2007	Full Time
University of El Imam El Mahdi	Assistant Professor	18/8/2007-28/9/2017	Full Time
University of El Imam El Mahdi	Associate Professor	28/8/2017-31/12/2018	Full Time
University of El Imam El Mahdi	Secretary of Examination	1/2/2008-1/1/2009	Full Time
University of El Imam El Mahdi	Head of the Mechanical Dept.	17/5/2009-1/8/2011	Full Time

University of El Imam El Mahdi	Dean of the Faculty	1/8/2011-21/2/2018	Full Time
Islamic University of Omdurman	Associate Professor	1/1/2019-up to now	Full Time
Sudan international University	Associate Professor	3/11/2018-up to now	Part Time

### **Courses Taught:**

#### **Postgraduate Level:**

1. Hydraulic and Pneumatic Control System
2. Research Skills
3. Research Methodology and Engineering Ethics
4. Advanced Thermodynamics

#### **Undergraduate level:**

1. Thermodynamics 1, 2, & 3
2. Refrigeration and Air Conditioning
3. Design of Refrigeration and Air Conditioning Systems
4. Power Plant Engineering
5. Boilers and Heat Exchanger Design
6. Maintenance Management
7. Mechanics of Material 1 & 2
8. Manufacturing Technology 1 & 2
9. Advance Manufacturing Technology

Beside that supervision of Graduate and Postgraduate projects and thesis (B.Sc., Master, and PhD. Level)

### **Publications:**

#### **PhD. Thesis**

(Enhancement and Analysis of A Liquid Desiccant Based-Cooling System)  
University Technology Malaysia, July 2007.

#### **Master Thesis**

(Properties and Performance Characteristics of Liquid Desiccant) University Technology Malaysia, July 1998.

### **Research Area**

Air Conditioning and Refrigeration, Desiccant Cooling, Renewable Energy

### **Journal Papers:**

- 1- ELNAZEER ELTAHIR OSMAN KHALIFA, **ELHADI BADAWI MAHGOUB BARAKAT**" Design and Investigation of Adsorption Refrigeration Unit" Scientific Journal of El Imam El Mahadi University volume 9, July 2017.
- 2- MOHANAD GADELRAH MOHAMMED, **ELHADI BADAWI MAHGOUB BARAKAT**, ELNAZEER ELTAHIR OSMAN KHALIFA, and WALEED NOUR ELDIEN SALIH" Comparison Between the Parabolic and Dish Solar Collectors by using Matlab" International journal of Trend in Research and Development, volume 4, issue 2, March- April 2017.
- 3- ELNAZEER ELTAHIR OSMAN KHALIFA, **ELHADI BADAWI MAHGOUB BARAKAT**" Performance Investigation of Adsorption Refrigeration Plant for Combined Heat and Cold" Red Sea University Journal of Basic and Applied Science. Volume 2, special issue March 2017.
- 4- F. N. Ani, **E. M. Badawi** and K.S. Kannan (2005) " The Effect of Absorber Packing Height on the Performance of A Hybrid Liquid Desiccant System", Renewable Energy 2005.
- 5- **E. M. Badawi** and K.S. Kannan (1999)" Absorber and Regenerator Performance of Liquid Desiccant Refrigeration System" Journal Institution of Engineers, 60, (4); 41-46
- 6- **E. M. Badawi** and K.S. Kannan (1997) " Feasibility for Dehumidification Using Liquid Desiccant in Hot Humid Climates" Buletin R&D. UTM, Malaysia

### **Conference Papers:**

- 1- **E. M. Badawi**, F. N. Ani and K.S. Kannan (2005) "Hybrid Desiccant Cooling System as Efficient Energy Replacement for Air Conditioning Applications" National Conference on Advances in Mechanical Engineering, NAME'05, Kuala Lumpur, Malaysia. 18-20 May 2005.
- 2- **E. M. Badawi**, F. N. Ani and K.S. Kannan (2004) "A Review of Desiccant Based Cooling System" Malaysian Science and Technology Congress, COSTAM 04, 05-7 October 2004, Kuala Lumpur, Malaysia.
- 3- **E. M. Badawi** and K.S. Kannan (1997) " Liquid Desiccant Dehumidification System as Alternative Method for conditioning Air" in Proceedings of International Symposium on Advances in Alternative and Renewable Energy (ISAAE'97) 22-24 July 1997, Johor Bahru, Malaysia.

**Academic Activities and Membership:**

1/ head of the faculty academic board, Faculty of Engineering, El Imam El Mahdi University 1/8/2011-21/2/2018

2/ member of the faculty academic board, Faculty of Engineering, El Imam El Mahdi University 21/2/2018-31/12/2018

3/ member of the senate, University of El Imam El Mahdi, 1/8/2011-21/2/2018

4/ member of the faculty academic board, Kosti Technical Faculty for Engineering 17/5/2009-31/12/2018

**Workshops and Courses Attained:**

Workshop/ Course	Institution	Duration
Matlab for Beginners/ Intermediate	The School of Graduate Studies, Universiti teknologi Malaysia	15/1/2007 – 31/1/2007
Advance Academic Teaching Training	Khartoum University Center for Advanced Training	4/1/2009- 17/1/2009
Modern University Administration	Global Innovation Training Centre (Malaysia) in collaboration with International Islamic University (Malaysia)	19/5/2016- 23/5/2016
The Effective and Continuous Administration Supervision for Higher and Intermediate Leaders	Global Innovation Training Centre (Malaysia) in collaboration with International Islamic University (Malaysia)	19/5/2016- 23/5/2016