

## **SUMMARY VITA – Ahmed H. Eltom, Ph.D., P.E.**

### ***Professor***

<b>Years on Faculty:</b>	24 (original appointment 08/01/84)
2008- Present	Professor and Department Head
1998-2008	Professor
1991-1998	Associate Professor
1984-1991	Assistant Professor

### **Degrees:**

B.S. Electrical Engineering, University of Khartoum, Khartoum, Sudan; 1973  
M.S. Electrical & Computer Engineering, Clarkson University, Potsdam, NY, USA; 1981  
Ph.D. Electrical Engineering, Clarkson University, Potsdam, NY, USA; 1984

### **Other Related Experience:**

Qatar University Fulbright Scholar (1996-97)  
Consultant, Tennessee Valley Authority, Chattanooga, TN (1985-1994)  
The National Electricity Corporation, Khartoum, Sudan (1973-1980)  
*Manager and Senior Commercial Engineer*, Khartoum North, Sudan (1978-1980)  
*District Engineer ( Section Head)*, Damazin District (1974-1975)  
*Field Engineer*, Khartoum District (1973-1974)  
*Design Engineer (Special Detail)*, Ministry of Public Works, Riyadh, Saudi Arabia (1977-1978)  
State in which Registered: Tennessee

### **Principal Publications of Last Five Years:**

#### ***Articles:***

Ahmed Eltom, Alioman Demibas, "Motor System Energy Efficiency in the Nylon Industry: a Comparison of PWM and Square Wave Invertors." The IEEE International Electric Machines and Drives Conference. Miami Florida, May 3-6, 2009.

Ahmed Eltom, "Industry Grade Power System Protection Laboratory," ONR/NSF/EPRI/AEP-Sponsored Faculty Workshop Reforming Electric Energy Systems Curriculum With Emphasis on Renewables/Storage, Reliable Delivery and Efficient End-Use, NAPA, California, Feb 12-15, 2009. (Invited)

Ahmed Eltom, Oladokun Faduyile, "The Economics of Energy Efficient and Standard Motors When subjected to harmonic voltages." Accepted to IEEE, PES Power Africa 2007, Conference and Exposition. Johannesburg, South Africa, 16-20 July 2007.

Ahmed Eltom, Mohamed Aziz, "The Economics of Energy Efficient Motors During Unbalanced Voltage Conditions." Inaugural IEEE Power Engineering Society Conference and Exposition in Africa. Durban, South Africa, 11-15 July 2005. (Refereed)

Ahmed Eltom, "UTC Power Laboratory a cooperation between Industry and Academia" Extended Abstract Presented at the ASEE South East Meeting , April 2005.

#### ***Books:***

N.D Sadanandan, Ahmed H. Eltom, Energy Efficient Motors Reference Guide, The University Press of the Pacific, 2005

### **External Funding the last Five Years:**

300,000 Received new test systems and relays from ABB, GE, Schweitzer Laboratories, and Omicron Inc support the Relay Laboratory  
2009

\$283,325 Received new test systems and relays from ABB, TVA, Schweitzer Laboratories, and Omicron Inc support the Relay Laboratory  
2003-04

**Scientific and Professional Society Memberships:**

The Institute of Electrical and Electronic Engineers  
Power Engineering Society

**Honors and Awards:**

Distinguished Teaching Professor at the University Of Tennessee at Chattanooga USA  
Fulbright Scholar for 1996/ 97 to Qatar  
Who and Who in American Men and Women Scientists  
Member American Arbitration Association  
Registered Consultant for the African Development Bank

**Institutional Service in the Last Five Years (committee assignments, etc):**

Served on the College Assessment Committee	2004/8
Served on the College Graduate Committee	2004/9
Served on the University Budget Committee	2006/07
Served on the Graduate Council	2007-Present
Served on the university Technology Committee	2008-present
Served on Graduate Council Curriculum Committee	2007-present

**Percentage of time available for research or scholarly activities-** 20%

**Percentage of time committed to the program-** 80%

**Professional Services:**

Chair, IEEE Power Engineering Society Chattanooga, 1998-2005  
Served on the IEEE PES Transmission and Distribution Conference and Exposition Technical Committee, Latin America, 2006- Present  
Served as reviewer for 2007 IEEE Power Africa Conference

**Professional Development Activities in the Last Five Years:**

Participated and attended the IEEE International Electric Machines and Drives Conference. Miami Florida, May 3-6, 2009.  
Participated and attended ONR/EPRI/AEP workshop on Reforming EE Curriculum Workshop in Napa Valley, California, February 2009.  
Attended IEEE Conference on Global Sustainable Energy Infrastructure, Oct 2008.  
Participated and attended ONR/EPRI/AEP workshop on Reforming EE Curriculum Workshop in Napa Valley, California, February 2008.  
Participated and attended ONR/EPRI/AEP-sponsored Summer Faculty Workshops on Integrated Electric Energy Systems curriculum at the University of Minnesota, June 2007.  
Attended Georgia Tech Relay Conference, 2005.