

**Name** ZEYAD O. AL-HEKAIL

**Date of Birth** April 8, 1963 ( 14/11/1382 H)

**Address** King Saud University  
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**Present Position** Deputy Rector for Educational And Academic Affairs  
Associate professor, Electrical Engineering Department, College of Engineering, King Saud University.

**Specialty and General Interest**

- Electromagnetic, Communications, GSM networks.
- Measurement of Electromagnetic radiation
- Computer applications and information Systems.

**Qualifications**

- Ph.D. in Electrical Engineering (Electromagnetics / Communications / Mathematics) June 1992, Ohio State University, Columbus, Ohio, U.S.A.
- M.S. in Electrical Engineering (Electromagnetics), December 1988 Ohio State University, Columbus, Ohio, U.S.A.
- B.S. (with first class honor) in Electrical Engineering (May 1985) King Saud University, Riyadh, Saudi Arabia.

**Position Held** Deputy Rector for Educational And Academic Affairs , 9/2007  
GM for IT at Suliman Abdulaziz Alrajhi Holding 2/2001  
Full time Consultant, Ministry of Higher education 2/2000  
Dean Of Admission and Registration Since 4/96  
Vice-Dean Of Admission and Registration 2/95

**Research and activity**

- Published several papers in local and international journals and conferences.
- The Principal Investigator of the project “Filed study of Electromagnetic radiation level in Riyadh aria”. A project supported by KACST during 1995-1997.

- Member of the research team of a study : Field Measurements for Radiation Levels at KSA (CITC Funded Research Project)
- Developing special reports for Government and private entities
- Doing research in the Higher education field. In particular, a research on the expected demand for higher education in the next 20 years, 2000. The available options for admission systems in KSA, 2006 . Evaluation of the current education/registration system in KSA universities, 2006. Preparatory studies for the future plan in higher education, 2000.
- Member of the Admission and capacity study of the future plan of higher education. A study conducted by Taybah University 2006.
- Development and operation of the anechoic chamber lab at the EE department, 1994.
- Refereeing few papers in local and international journals and conferences.
- Development of Computer tools to identify and rectify mismatches in Mobile operators (GSM) operational data bases (HLR, FNR, AUC,...) 2006-2007.
- Filed visit to seven American universities in behalf of Ministry of Higher education.
- Consultant at the Ministry of Interior communications department 1998-2001
- Graduate Research Associate at the Ohio State University ElectroScience Laboratory, (Jan. 1987-June 1992) . Anechoic Chamber Compact range reflector design evaluation. Scattering from thin dielectric straps surrounding conducting structures. Development of a Hybrid method and codes to compute the scattered fields from complex structures.
- Teaching courses in electromagnetics and communications

### *Committees*

- University council member 2007 - date
- University council member 95 – 2000
- Head of Curriculum and education system Committee, 2007 – date
- Member of Curriculum and education system Committee, 1995- 2004
- Member of the University Committee for Information and Computer systems 1996 - 2006.
- Member of the technical committee of the National center for assessment in Higher education 2002-date
- Member of the supervising committee for the future plan for higher education, 2005.

- Member of Student discipline committee 1995 – 1998
- Member of restructuring committee for two university colleges.
- Member of restructuring Qasime University.
- Student representative in Safety and security committee 1984-1985.
- Member of the main university committee for planning, university committee for cooperate education, university curriculum and educational system committee, the technical committee for admission and registration related issues. As well as several other task related committees

## ***Publications***

### **Special Analysis and performance Measurement of Rectangular Microstrip Antennas**

Zeyad O.I. Al-Hekail and Mostafa S. Afifi, Proceedings, Conference on antennas and communications, IEEE MONTECH'86, Sep 29- Oct. 1, 1986, Montreal, Quebec, Canada.

### **Study of Compact Range Reflector System to Measure 20 feet Targets**

Gupta, Z. Alhekail and W.D. Burnside, Technical report No. 312884-1, ElectroScience Lab., Ohio State University. Prepared under a grant for Boeing Aerospace Company, Seattle, Washington, May 1987.

### **Generalized Impedance/Resistive boundary conditions for electromagnetic scattering problems**

R. Rojas and Z. Al-Hekail, Radio Science, Volume 24, Number 1, pages 1-12, January-February 1989.

### **Scattering from Thin Dielectric Straps Surrounding A Perfectly Conducting Structure**

Alhekail, and I.J., Gupta, Technical Report No. 719493-5, ElectroScience Lab., Ohio State University. Prepared under a grant for NASA Langley research center, Hampton, VA, January 1989.

### **Scattering from Thin Dielectric Straps Surrounding A Perfectly Conducting Structure**

Alhekail, W.D. Burnside and I.J. Gupta, Presented in The 11th AMTA annual meeting and symposium. Monterey, California, October 9-13, 1989.

### **Scattering from Thin Dielectric Straps Surrounding A Perfectly Conducting Structure**

Alhekail, I.J. Gupta and W.D. Burnside, IEEE Transactions on Antennas and Propagations, pp. 442-447, April 1993.

### **Scattered Fields From Open-Ended Waveguide Cavities**

Al-hekail, W.D. Burnside, C. W. Chuang and P. H. Pathak ,Proceedings of the IEEE Antennas and Propagation Society International Symposium and URSI Radio Science Meeting, 1993, Vol. 3, pp. 1424-1427.

### **Scattering from Corner Reflectors; A Hybrid Approach**

Al-hekail, and W.D. Burnside, Proceedings of the IEEE Antennas and Propagation Society International Symposium and URSI Radio Science Meeting, 1993, Vol. 3, pp. 1432-1435.

### **A hybrid method for computing the scattered fields from complex structures**

*Al-Hekail, Z.O.; Burnside, W.D.* ,Antennas and Propagation, IEEE Transactions on , Volume: 42 Issue: 6 , June 1994 ,Page(s): 847 -852

### **Utilizing structure symmetry in REDUCING THE CPU time for computing the MOMENT METHOD [Z] matrix elements**

Zeyad O. Al-Hekail, 1994 ACES Conference, the 10<sup>th</sup> Annual Review of progress In Applied Computational Electromagnetic, March 21-26, 1994. Monterey, California, USA

### **Possible Effects of Electromagnetic Waves**

Zeyad Othman Al-hekail, Proceedings of the Industrial Air Pollution Symposium, Mechanical Eng. Dept., College of Eng., King Saud University. 15-17 November, 1993. PP.553-565.

### **Utilizing Structure Symmetry to Reduce the CPU Time for Computing [Z] Matrix Elements in the Method of Moments**

Zeyad Alhekail, Journal of King Saud University [Engineering Sciences], Kingdom of Saudi Arabia, vol 14, No.1 , 1422 H. letter of acceptance date is 7/11/2000.

### **Field study of Electromagnetic radiation level in Riyadh area**

Zeyad Alhekail, Abdulaziz Alrowise, Mostafa Afifi, Fayez Alhargan, King Abdulaziz city for science and technology, project number ,final report, 1420H.

### **Electromagnetic Fields Intensities near Transformers, Heavy Equipments and Transmission Lines**

Zeyad Alhekail, Journal of King Saud University [Engineering Sciences], Kingdom of Saudi Arabia, vol 14, No.2 , 1422 H. letter of acceptance date is 13/1/2001.

### **Radiated power from GSM Mobile phones**

Zeyad Alhekail, Journal of King Saud University [Engineering Sciences], Kingdom of Saudi Arabia, vol 14, 1422 H. letter of acceptance date is 20/2/2001.

### **Electromagnetic Radiation from Microwave Ovens**

Zeyad O. ALHEKAIL, International Conference on Communication Computer And Power February 12-14, 2001. Muscat, Sultanate of Oman.

### **ELECTROMAGNETIC RADIATION FROM VISUAL DISPLAY UNITS**

Mostafa S. AFIFI, AND Zeyad O. ALHEKAIL, International Conference on Communication Computer And Power, February 12-14, 2001. Muscat, Sultanate of Oman.

### ***Other***

IEEE Antennas and Propagation Society member

Saudi Computer Society member

Saudi Engineering Society member

The deal student award at KSU 1984