

## **Nagwa Bekir**

Associate Dean and Professor  
Department of Electrical and Computer Engineering  
California State University, Northridge  
Senior member IEEE

### **EDUCATION and TRAINING:**

<u>Degree</u>	<u>Year Conferred</u>	<u>University</u>
Ph.D.	1978	University of Southern California
M.S.	1975	University of Southern California
B.S.	1966	Cairo University

### **RESEARCH and PROFESSIONAL EXPERIENCE:**

Professor, 1980- Present, ECE Department, CSUN. Research: Radar Systems and Fiber Optic Communications.

Graduate Coordinator, 1995-1997& 2003-2008, ECE department

Interim Associate Dean, F03 & Sp11- Present; processing college curriculum; reviewing curriculum from other colleges; developing brochures between engineering departments and community colleges.

Chair ECE Department, 1997-2003. Development and implementation of ECE academic programs; Preparing programs for external evaluations; reviewing ECE related curriculum from other community colleges for articulation purposes; advising and counseling students.

Quality Control Engineer, 1966-1972, Full time employment.

Axiomatics Company, 1978, MTS Full time employment.

Hughes Aircraft, 1978-1980, MTS- Full time employment.

ITT Gilfillan, 1984, Consultant in radar systems.

Hughes Aircraft Company, 1986, Consultant in detection system design.

Cal-Trans, 1992-1993, Consultant in fiber optic networks.

### **PUBLICATIONS: (relevant paper only)**

Bekir, Cable, Hashimoto, and Katz, "Teaching Engineering Ethics: A New Approach", Frontiers in Education Conference Proceedings, Reno, Nevada, November 2001.

### **SYNERGISTIC ACTIVITIES:**

Book reviewer, 2010, 5<sup>th</sup> Edition of "Probability, Random Variables and Stochastic Processes", Papoulis & Pillai, McGraw-Hill; Book reviewer, 2010, "Contemporary Communications using MATLAB ", John Proakis, Masoud Salahi and Gerhard Banch, Cengage Learning;

Book reviewer, 2010, new manuscript "Communication Systems: Theory, DeskTop Video Lectures, Mathcad and MATLAB Simulations", Janak Sodha, John Wiley & Sons, Inc;

Book reviewer, 2009, "Optical Fiber Communications, 4<sup>th</sup> edition", Keiser, McGraw-Hill;

Book reviewer, 2007, "Communication Systems: An Introduction to Signals and Noise in Electrical Communications", A. Bruce Carlson, McGraw-Hill;

Developer, 2004, new Fiber Optic class and Lab for ECE department; Book reviewer,  
2003, a new manuscript ,“Intuitive Probability & Random Processes using  
MATLAB”, Kay, John Wiley & Sons;  
Mentor/ supervisor, under graduate students in MAERC Fellowship program;  
Director, 94-95, design clinic on behalf of Northrop Grumman in a More-Electric  
Aircraft;  
Panelist, NSF1991, Small Business Innovation Research Proposals, Fiber Optic  
Communications