

NMSU ABET resume

NAME:

MUHAMMAD DAWOOD

EDUCATION:

Doctor of Philosophy, Electrical Engineering, University of Nebraska-Lincoln, Nebraska, 2001

Master of Science, Electrical Engineering, University of Nebraska-Lincoln, Nebraska, 1998

Bachelor of Engineering, Avionics Engineering, NED University of Engineering and Technology, Karachi, Pakistan, 1985

Diploma in Radar Technology, School of Electronics, Karachi, Pakistan, 1980

ACADEMIC EXPERIENCE:

NMSU-Las Cruces, Assistant Professor Tenure-Track, Full-time	2005-present
KU-Lawrence, Research Assistant Professor, Full-time	2002-2005
UNL-Lincoln, Instructor, Full-time	2002-2002
UNL-Lincoln, Research/Teaching Assistant, Half-time	1996-2001
School of Electronics, Karachi, Pakistan, Progress and Training Control Officer, Full-time	1994-1994
National University of Science and Technology-Pakistan, Instructor	
Department of Avionics, Full-time	1990-1993

NON-ACADEMIC EXPERIENCE:

Tellabs Research Center-Mishawaka, Research Engineer, Full-time	2001-2001
PIA-Karachi, Pakistan, Project Development Engineer, Full-time	1995-1996
PAF-Sargodha, Pakistan, Electronic Engineer, Full-time	1987-1990
PAF-Peshawar, Pakistan, Maintenance Engineer, Full-time	1985-1987

CONSULTING, PATENTS, ETC.:

Recent Consulting: None

US Patents:

US 61-353136 (provisional patent), An Experimental Method to Detect and Process Precursors at Microwave Frequencies for Greater Penetration Depths and Enhanced Imaging Through Dispersive Media	2010
US 61-370773 (provisional patent), Extended Optimal Filters for Adaptive Radar Systems Using Binary Codes	2010

PROFESSIONAL REGISTRATION: None

CURRENT MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS:

Institute of Electrical and Electronics Engineers

HONORS & AWARDS:

INSTITUTIONAL AND PROFESSIONAL SERVICE IN THE LAST 5 YEARS:

1. Manuscript Reviewer for IEEE Geo Science and Remote Sensing Letters

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- (GRSL), IEEE Trans. Aerospace and Electronics Systems (AES), Institute of Electrical Technology (IET, formerly IEE), NSF, and AFOSR, 2003-present
2. Member, Engineering Physics ABET Committee, EE Representative since November 2009
 3. Member, College of Engineering UG Research Committee, since November 2010.
 4. Member, College of Engineering Student Evaluation Committee, since Spring 2010.
 5. Member, Undergraduate Studies Committee, since 2008.
 6. Advisor, IEEE Student Chapter, NMSU, since 2007

PRINCIPAL PUBLICATIONS/PRESENTATIONS IN THE LAST FIVE YEARS:

1. A. V. Alejos, M. Dawood, and L. Medina, "Experimental dynamical evolution of the Brillouin precursor for broadband wireless communication through vegetation," *Journal of Electromagnetic Waves and Applications, Progress In Electromagnetic Research, PIER 111*, 291-309, 2011
2. A. V. Alejos, M. Dawood, and H. U. Mohammed, "Analysis of Brillouin precursor propagation through foliage for digital sequence of pulses", *IEEE Geoscience and Remote Sensing Letters*, Vol. 8, No. 1, Jan. 2011, pp. 59-63
3. A. V. Alejos, M. Dawood, H. U. R. Mohammed, M. Garcia Sanchez, and I. Cuiñas, "Educational System to Approach Teaching of Bi-static Noise Radar," *The Journal of Electronics and Electrical Engineering (Elektronika Ir Elektrotechnika, ISSN 1392 – 1215)*, No. 6(102), 2010, pp. 71-74.
4. M. Dawood, H. U. R. Mohammed, and A. V. Alejos, "Experimental Detection of Brillouin Precursors Through Tap Water at Microwave Frequencies", *Electronics Letters*, 46, 1645, 2010.
5. B. Uhl, M. Dawood, and S. Castillo, "Quadrature-Modulated Circular Microstrip Patch Antenna for Phased Arrays," *IEEE Antennas and Wireless Propagation Letters*, Vol. 9, 2010, pp. 958-961.
6. Ana Vazquez Alejos, Manuel Garcia Sanchez, Mohammad Dawood, Iñigo Cuiñas Gomez, Chapter "Wideband Noise Radar based in Phase Coded Sequences", in book "Radar Technology", ISBN 978-953-307-029-2, edited by Guy Kouemou, published by IN-TECH (www.intech.org), Vienna (Austria), 2009
7. V. Alejos and M. Dawood "Estimation Of Power Extinction Factor In Presence Of Brillouin Precursor Formation Through Dispersive Media," *Journal of Electromagnetic Waves and Applications*, (accepted for publication) Dec. 28, 2010.

COURSES TAUGHT 2009–2010:

EE541/454-Antennas; EE548/452-Radar Systems; EE590/490-RF/Microwave Wireless Systems; and EE351-Applied Electromagnetics

PROFESSIONAL DEVELOPMENT ACTIVITIES IN THE LAST 5 YEARS:

Talks attended at IEEE conferences, and other National/International Conferences, Meetings, Workshops, etc. : > 300

Seminars/Workshops participated at teaching Academy NMSU: >230 hours