



**Curriculum Vita**  
**December 2025**

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**Academic Department:** Electrical Engineering

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<b>EDUCATION</b>
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Doctor of Philosophy in Electrical Engineering  
University of Mississippi, 2010

Master of Science in Electrical Engineering  
Jordan University of Science and Technology, 2005

Bachelor of Science in Electrical Engineering  
Jordan University of Science and Technology, 2003

<b>TEACHING EXPERIENCE</b>
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2023 – Now, Engineering Manager, Mobile Communications America

2011 – 2023, Sr. Engineering Manager, CommScope

2010 – 2011, Sr. Engineer, Ericsson

2006 – 2010, Research Assistant and Teaching Assistant, University of Mississippi

2005 – 2006, Spectrum Planning Engineer, Jordan's Telecom. Regulatory Commission

2003 – 2005, Teaching Assistant, Jordan University of Science and Technology

## PUBLICATIONS

Esam Obiedat, L. Cao, "Joint Channel Estimation and Turbo Decoding in UWB OFDM Systems", MAESC 2007.

Esam Obiedat, L. Cao, "Turbo Decoder for Low-Power Ultrawideband Communication Systems", International Journal of Digital Multimedia Broadcasting, 2009.

Esam Obiedat, Guotai Chen, Lei Cao, "Distributed Turbo Product Codes with Multiple Vertical Parities", 29th International Workshop on Bayesian Inference and Maximum Entropy Methods in Science and Engineering, AIP Conference, MaxEnt 2009.

Esam Obiedat, Lei Cao, "Soft Incremental Redundancy for Distributed Turbo Product Codes", Las Vegas, CCNC 2010.

Esam Obiedat, Guotai Chen, Lei Cao, "Distributed Turbo Product Codes Over Multiple Relays", Las Vegas, CCNC 2010.

Esam Obiedat, Lei Cao, "Soft Information Relaying for Distributed Turbo Product Codes (SIR-DTPC)", Signal Processing Letters, Apr., 2010.

Peng Huo, Lei Cao, Esam Obiedat, "Cooperative Communications with Multiple Sources and Relays in Ad-Hoc Networks", WiCOM 2010.

Esam Obiedat, Lei Cao, "Power Allocation for Distributed Turbo Product Codes (DTPC)", GLOBECOM 2010.

Bassam Al-Asir, Loay Khalaf, Esam Obiedat, "Performance of Phase and Phase-Magnitude Equalization in 802.11 OFDM Systems with Soft Decision Viterbi Decoding", International Conference on Wireless Communications and Mobile Computing, Turkey June 2011.

Esam Obiedat, Lei Cao, "Joint Distributed Space-Time Block Coding with Distributed Turbo Product Code (DSTBC-DTPC)", GLOBECOM 2011.

Esam Obiedat, Bassam Asir, Loay Khalaf, "Performance of only-phase equalization in OFDM with soft decoding in indoor environment", GLOBECOM 2011, GLOBECOM 2011.

Esam Obiedat, Chirag Warty, Lei Cao, "Location Dependent Optimal Relay Selection in Mobile Cooperative Environment", APSIPA 2012

Cagatay Tanil, Chirag Warty, Esam Obiedat, "Collaborative Mission Planning for UAV Cluster to Optimize Relay Distance" IEEE Aerospace Conference 2013.

Esam Obiedat, Guotai Chen, Lei Cao, "Distributed turbo product codes with soft decode-and-forward and power allocation", Int. J. Wireless and Mobile Computing, Vol. 6, No. 5, 2013.

Esam Obiedat, "Distributed 2X2 Space-Time Trellis Code (DSTTC) with imperfect Relay", Wireless in Space and Extreme Environments, Nov 2013.

Esam A. Obiedat and Lei Cao, "Cyclic Interleaving for Multiple Vertical Parities in Distributed Turbo Product Codes", Recent Patents on Signal Processing, 2013.