

# Dr. OSAMA HARAZ

Electrical Engineering (EE) Department,  
Faculty of Engineering,  
Assiut University,  
71515, Assiut,  
Egypt.

Tel: +20 (88) 218-0869 (Home),  
+20 (88) 241-1052 (Work),  
+20 (102) 192-2324 (Cell)

E-mail: [osama\\_m\\_h@yahoo.com](mailto:osama_m_h@yahoo.com)  
[osama.haraz@eng.au.edu.eg](mailto:osama.haraz@eng.au.edu.eg)

Homepage: <http://semsemharaz.angelfire.com/>  
[http://www.aun.edu.eg/membercv.php?M\\_ID=861](http://www.aun.edu.eg/membercv.php?M_ID=861)

<b>Academic Qualifications:</b>	<ul style="list-style-type: none"><li>• <b>Ph.D. in Electrical &amp; Computer Engineering</b> (2006–2011) from Concordia University, Montreal, Quebec, CANADA. Title of thesis: “Ultra-Wideband Antennas and Components for Wireless Communication Applications.” Research Supervisor: Professor Abdel Razik Sebak.</li><li>• <b>M.Sc. in Electrical Engineering</b> (2000–2004) from Assiut University, Assiut, Egypt. Title of thesis: “Analysis of Penetration of Electromagnetic Waves Emitted by Mobile Phones into Human Body.” Research Supervisors: Professor Mazen M. Abdel-Salam and Professor El-Deek M. El-Sayed.</li><li>• <b>B.Sc. in Electrical Engineering</b> (1994-1999) from Assiut University, Assiut, Egypt with accumulative average grade “Very Good with degree of honor (83.98%)”.</li><li>• <b>B.Sc. project</b> (Electronics &amp; Communication section) with grade excellent, Electrical Engineering Department, Faculty of Engineering, Assiut University, Assiut, Egypt. Title of project: “Multi-channel Blind Signal Separation Using Second Order Statistics”</li></ul>
<b>Other Qualifications:</b>	<ul style="list-style-type: none"><li>• <b>Languages:</b> English and Arabic (native)</li><li>• <b>Computer skills:</b> ICDL certificate.</li><li>• <b>Operating Systems:</b> Linux, Windows 9x, XP, Windows 7 and MS-DOS.</li><li>• <b>Computer Languages:</b> Pascal, FORTRAN, QBasic and Assembly.</li><li>• <b>Tools:</b> MATLAB, Pspice, ORCAD and MS Office.</li><li>• <b>Electromagnetic Simulation Tools:</b> Using Pspice, XFDTD SEMCAD Solver, Agilent Advanced Design System (ADS), Ansoft High Frequency Structure Simulator (HFSS), Ansoft Designer software packages, Computer System Technology Microwave Studio (CST MWS), and Zealand’s IE3D program.</li><li>• <b>Co-supervisor for undergraduate capstone projects:</b> Analysis, design and testing of Ultra-Wideband antennas, Department of Electrical and Computer Engineering, Concordia University, 2009 &amp; 2011.</li></ul>

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<b>Work Experience:</b>	<ul style="list-style-type: none"> <li>• <b>Post-Doctoral Fellow (PDF)</b> at technology innovation center in radiofrequency and photonics (RFTONICS), King Saud University (September 2013- Now).</li> <li>• <b>Assistant Professor</b> in Electrical Engineering Department, Faculty of Engineering, Assiut University, Assiut, Egypt (September 2012- August 2013).</li> <li>• Worked as <b>Post-Doctoral Fellow (PDF)</b> in Electrical and Computer Engineering Department, Faculty of Engineering and Computer Science, Concordia University, Montreal, CANADA (September 2011- August 2012).</li> <li>• 5 years experience as <b>Researcher (RA) and Teaching Assistant (TA)</b> in Electrical and Computer Engineering Department, Faculty of Engineering and Computer Science, Concordia University, Montreal, CANADA (2006-2011).</li> <li>• Worked as <b>Research Associate</b> in Centre Énergie Matériaux Télécommunications, Institut national de la recherche scientifique (INRS-ÉMT), Montréal, Québec, CANADA (May 2011–August 2011).</li> <li>• 7 years experience as <b>Demonstrator and Associate Lecturer</b> in Electrical Engineering Department, Faculty of Engineering, Assiut University, Assiut, Egypt (2000-2006).</li> </ul>
<b>Subjects taught:</b>	<p><u>Undergraduate Courses:</u></p> <ul style="list-style-type: none"> <li>• Electronics I.</li> <li>• Medical Instruments.</li> <li>• Guided Waves and Antennas.</li> <li>• Electrical Material Properties.</li> <li>• Introduction to Computer Science.</li> <li>• Techniques in Electromagnetic Compatibility (EMC).</li> <li>• Microwave Basic Experiments Laboratory.</li> <li>• Laboratory Experiments in Basic Electronics I, II.</li> </ul> <p><u>Graduate Courses:</u></p> <ul style="list-style-type: none"> <li>• Advanced Antennas.</li> </ul>
<b>Research Skills and Experience:</b>	<ul style="list-style-type: none"> <li>• <b>Antenna Engineering:</b> UWB antennas, microwave components and circuits, beamforming, dielectric resonator antennas, hybrid antennas, high-gain antennas, millimeter-wave antennas, EBG structures.</li> <li>• <b>Analytical &amp; Computational Electromagnetics:</b> Modeling techniques for simulation of EM waves interaction with 3D biological tissues objects for assessment of potential health hazards and design purposes.</li> </ul>
<b>Publications:</b>	<ul style="list-style-type: none"> <li>• International Journals : 15</li> <li>• International Conference papers : 23</li> <li>• National Conferences : 3</li> <li>• Book Chapters: 1</li> <li>• Magazine articles: 1</li> <li>❖ Publications are available upon request.</li> </ul>

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<b>Awards &amp; Fellowships:</b>	<ul style="list-style-type: none"> <li>• Post-doctoral fellowship, King Saud University, Riyadh, KSA, 2013-2014.</li> <li>• Post-doctoral fellowship, Concordia University, Canada, 2011-2012.</li> <li>• Concordia PhD Thesis Completion Award, June 2010.</li> <li>• 1st and 3rd places in the 1st Engineering and Computer Science Graduate Association (ECSGA) poster competition at Concordia University, Montreal, Canada, March 2010.</li> <li>• The Department of Electrical &amp; Computer Engineering Honorable Mention supervision of Capstone project for 2009 entitled “Analysis, Design, and Testing of UWB Antenna”, Concordia University, Montreal, Canada, 2009.</li> <li>• Scholarship of the Egyptian Ministry of Higher Education, 2006.</li> <li>• “Distinguished Student Award”, Graduates Day, the Egyptian Syndicate of Engineers, Assiut Engineering Syndicate, Assiut, 2000.</li> <li>• MobiNil communication company excellence award, 2000.</li> <li>• “Award of Honor” presented for graduation with Very Good with degree of honor, Student Union, Assiut, 1999.</li> <li>• “Academic Distinction Award”, Dean of the Engineering College, Assiut University, Assiut, 1998/1999.</li> <li>• “Academic Distinction Award”, 6th October University, Cairo, 1997/1998.</li> </ul>
<b>Internships &amp; Training:</b>	<ul style="list-style-type: none"> <li>• Concordia University Trainings/Workshops:             <ul style="list-style-type: none"> <li>○ Laser Safety Training, Biosafety Training, fall 2012.</li> <li>○ Workplace Hazardous Materials Information System (WHMIS) Training, summer 2011.</li> <li>○ PLUS Leadership Workshop Series, winter 2011.</li> <li>○ Seminar in University Teaching, fall 2008.</li> <li>○ Teaching Assistant (TA) Orientation, 2008.</li> </ul> </li> <li>• Leadership Training, Leaders Preparation Institute, Helwan, Egypt, summer 2006.</li> <li>• Assiut University Trainings/Workshops:             <ul style="list-style-type: none"> <li>○ Effective Teaching, Teaching with Technology, Time Management and Work Pressure, 2005.</li> <li>○ Code of Ethics, 2004.</li> <li>○ Teacher Preparation Training, 2002.</li> </ul> </li> <li>• Nuclear Materials Authority, Airborne Exploration Division, Cairo, Egypt, fall 2000.</li> <li>• Jordan Electricity Company, Amman, Jordan, summer 1998.</li> <li>• MISR EDFU Pulp, Writing and Printing Paper Company, Edfu, Aswan, Egypt, summer 1997.</li> <li>• Sugar Factory and Integrated Industries Company, Aswan, Egypt, summer 1996.</li> </ul>
<b>Membership in Technical Organizations:</b>	<ul style="list-style-type: none"> <li>• Student Member IEEE from 2007 to 2011,</li> <li>• Associate Member IEEE since 2011, * Membership number: 90301949</li> </ul>

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<b>Activities &amp; Voluntary Work:</b>	<ul style="list-style-type: none"><li>• <b>Serve on the Technical Program Committee as Reviewer for the following international conferences:</b><ul style="list-style-type: none"><li>○ The 2012 IEEE Symposium on Wireless Telecommunications Applications (ISWTA2012).</li><li>○ The 2012 IEEE Canadian Conference on Electrical and Computer Engineering (CCECE).</li></ul></li> <li>• <b>Serve as Reviewer for the following international journals:</b><ul style="list-style-type: none"><li>○ IEEE Transactions on Industrial Electronics.</li><li>○ IEEE Open Access</li><li>○ International Journal of Antennas and Propagation (IJAP).</li><li>○ Journal of Electrical and Electronics Engineering Research (JEEER).</li><li>○ AEÜ - International Journal of Electronics and Communications.</li><li>○ IET Electronics Letters.</li><li>○ Progress In Electromagnetics Research (PIER) and Journal of Electromagnetic Waves and Applications (JEMWA).</li></ul></li> <li>• <b>Serve on the Technical Program Committee as Session Chair for the following international conference:</b><ul style="list-style-type: none"><li>○ The 2012 IEEE Canadian Conference on Electrical and Computer Engineering (CCECE).</li></ul></li> <li>• <b>IEEE Concordia member, 2011</b><p>With that membership, we represent, and serve the needs of, the electrical and computer engineering students at Concordia while partnering with IEEE, the largest technical association in the world.</p></li> <li>• <b>Undergraduate Capstone Project Co-Supervision, 2009 &amp; 2011</b><p>As co-supervisor for undergraduate capstone projects “Analysis, design and testing of Ultra-Wideband antennas”, Concordia University, 2009 &amp; 2011, I helped the team members during their antenna design, simulation, fabrication and testing.</p></li> <li>• <b>ENCS Open House, Winter 2008</b><p>I participated in the Faculty of Engineering and Computer Science (ENCS) Open House in Winter 2008. On Saturday, January 26, the ENCS joined the rest of Concordia in opening its doors to new students. I was one of the representatives from Electrical and Computer Engineering (ECE) department with other departments and institutes of the Faculty were on hand to answer questions and to give an insider's point of view on what it's like to study, teach, or work here.</p></li></ul>
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The above-mentioned facts are true and correct from the best of my knowledge and belief.

Osama Haraz